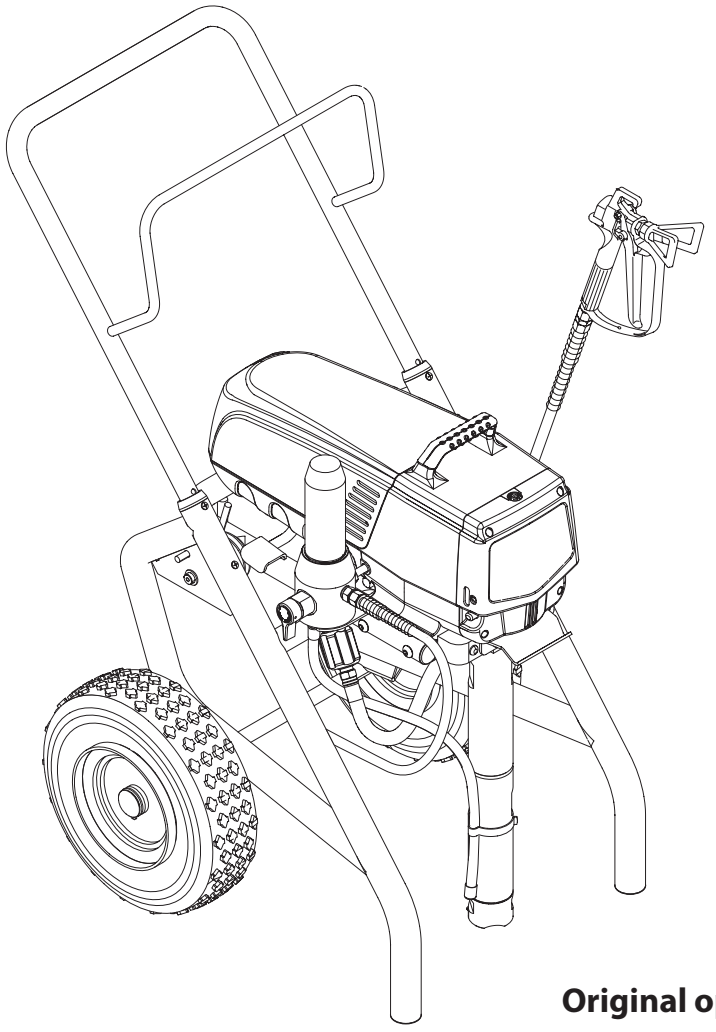
GB

Operating manual

ProSpray 3.39

Airless high-pressure spraying unit



Model:
0558054
0558079

Original operating manual

ProSpray 3.39

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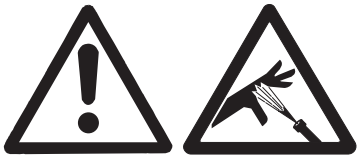
GB

Warning!

Attention: Danger of injury by injection!

Airless units develop extremely high spraying pressures.



1

Never put your fingers, hands or any other parts of the body into the spray jet!

Never point the spray gun at yourself, other persons or animals.

Never use the spray gun without safety guard.

Do not treat a spraying injury as a harmless cut. In case of injury to the skin through coating materials or solvents, consult a doctor immediately for quick and expert treatment. Inform the doctor about the coating material or solvent used.

2

The operating instructions state that the following points must always be observed before starting up:

1. Faulty units must not be used.
2. Secure WAGNER spray gun using the safety catch on the trigger.
3. Ensure that the unit is properly earthed.
4. Check allowable operating pressure of high-pressure hose and spray gun.
5. Check all connections for leaks.

3

The instructions regarding regular cleaning and maintenance of the unit must be strictly observed.

Before any work is done on the unit or for every break in work the following rules must be observed:

1. Release the pressure from spray gun and hose.
2. Secure the WAGNER spray gun using the safety catch on the trigger.
3. Switch off unit.

Be safety conscious!

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1. Safety regulations for Airless spraying

1.1 Explanation of symbols used

This manual contains information that must be read and understood before using the equipment. When you come to an area that has one of the following symbols, pay particular attention and make certain to heed the safeguard.

	This symbol indicates a potential hazard that may cause serious injury or loss of life. Important safety information will follow.
Attention	**This symbol indicates a potential hazard to you or to the equipment. Important information that tells how to prevent damage to the equipment or how to avoid causes of minor injuries will follow.**
	Danger of skin injection
	Danger of fire from solvent and paint fumes
	Danger of explosion from solvent, paint fumes and incompatible materials
	Danger of injury from inhalation of harmful vapors
	Notes give important information which should be given special attention.

HAZARD: INJECTION INJURY

Attention: Danger of injury by injection! A high pressure stream produced by this equipment can pierce the skin and underlying tissues, leading to serious injury and possible amputation.

Do not treat a spraying injury as a harmless cut. In case of injury to the skin through coating materials or solvents, consult a doctor immediately for quick and expert treatment. Inform the doctor about the coating material or solvent used.

PREVENTION:

- NEVER aim the gun at any part of the body.
- NEVER allow any part of the body to touch the fluid stream. DO NOT allow body to touch a leak in the fluid hose.
- NEVER put your hand in front of the gun. Gloves will not provide protection against an injection injury.
- ALWAYS lock the gun trigger, shut the fluid pump off and release all pressure before servicing, cleaning the tip guard, changing tips, or leaving unattended. Pressure will not be released by turning off the engine. The PRIME/SPRAY valve or pressure bleed valve must be turned to their appropriate positions to relieve system pressure.
- ALWAYS keep tip guard in place while spraying. The tip guard provides some protection but is mainly a warning device.
- ALWAYS remove the spray tip before flushing or cleaning the system.
- NEVER use a spray gun without a working trigger lock and trigger guard in place.
- All accessories must be rated at or above the maximum operating pressure range of the sprayer. This includes spray tips, guns, extensions, and hose.

HAZARD: HIGH PRESSURE HOSE

The paint hose can develop leaks from wear, kinking and abuse. A leak can inject material into the skin. Inspect the hose before each use.

PREVENTION:

- High-pressure hoses must be checked thoroughly before they are used.
- Replace any damaged high-pressure hose immediately.
- Never repair defective high-pressure hoses yourself!
- Avoid sharp bends and folds: the smallest bending radius is about 20 cm.
- Do not drive over the high-pressure hose. Protect against sharp objects and edges.
- Never pull on the high-pressure hose to move the device.
- Do not twist the high-pressure hose.
- Do not put the high-pressure hose into solvents. Use only a wet cloth to wipe down the outside of the hose.
- Lay the high-pressure hose in such a way as to ensure that it cannot be tripped over.

Only use WAGNER original-high-pressure hoses in order to ensure functionality, safety and durability.

HAZARD: EXPLOSION OR FIRE

Solvent and paint fumes can explode or ignite. Severe injury and/or property damage can occur.

PREVENTION:

- Do not use materials with a flashpoint below 21° C (70° F). Flashpoint is the temperature at which a fluid can produce enough vapors to ignite.
- Do not use the unit in work places which are covered by the explosion protection regulations.
- Provide extensive exhaust and fresh air introduction to keep the air within the spray area free from accumulation of flammable vapors.
- Avoid all ignition sources such as static electricity sparks, electrical appliances, flames, pilot lights, hot objects, and sparks from connecting and disconnecting power cords or working light switches.
- Do not smoke in spray area.
- Place sprayer sufficient distance from the spray object in a well ventilated area (add more hose if necessary). Flammable vapors are often heavier than air. Floor area must be extremely well ventilated. The pump contains arcing parts that emit sparks and can ignite vapors.
- The equipment and objects in and around the spray area must be properly grounded to prevent static sparks.
- Use only conductive or earthed high pressure fluid hose. Gun must be earthed through hose connections.
- Power cord must be connected to a grounded circuit (electric units only).
- Always flush unit into separate metal container, at low pump pressure, with spray tip removed. Hold gun firmly against side of container to ground container and prevent static sparks.

- Follow material and solvent manufacturer's warnings and instructions. Be familiar with the coating material's MSDS sheet and technical information to ensure safe use.
- Use lowest possible pressure to flush equipment.
- When cleaning the unit with solvents, the solvent should never be sprayed or pumped back into a container with a small opening (bunghole). An explosive gas/air mixture can arise. The container must be earthed.

HAZARD: HAZARDOUS VAPORS

Paints, solvents, and other materials can be harmful if inhaled or come in contact with body. Vapors can cause severe nausea, fainting, or poisoning.

PREVENTION:

- Wear respiratory protection when spraying. Read all instructions supplied with the mask to be sure it will provide the necessary protection.
- All local regulations regarding protection against hazardous vapors must be observed.
- Wear protective eyewear.
- Protective clothing, gloves and possibly skin protection cream are necessary for the protection of the skin. Observe the regulations of the manufacturer concerning coating materials, solvents and cleaning agents in preparation, processing and cleaning units.

HAZARD: GENERAL

This product can cause severe injury or property damage.

PREVENTION:

- Follow all appropriate local, state, and national codes governing ventilation, fire prevention, and operation.
- Pulling the trigger causes a recoil force to the hand that is holding the spray gun. The recoil force of the spray gun is particularly powerful when the tip has been removed and a high pressure has been set on the airless pump. When cleaning without a spray tip, set the pressure control knob to the lowest pressure.
- Use only manufacturer authorized parts. User assumes all risks and liabilities when using parts that do not meet the minimum specifications and safety devices of the pump manufacturer.
- ALWAYS follow the material manufacturer's instructions for safe handling of paint and solvents.
- Clean up all material and solvent spills immediately to prevent slip hazard.
- Wear ear protection. This unit can produce noise levels above 85 dB(A).
- Never leave this equipment unattended. Keep away from children or anyone not familiar with the operation of airless equipment.
- Device weighs in excess of 36 kg. Three-person lift is required.
- Do not spray on windy days.
- The device and all related liquids (i.e. hydraulic oil) must be disposed of in an environmentally friendly way.

1.2 Electric Safety

Electric models must be earthed. In the event of an electrical short circuit, earthing reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having an earthing wire with an appropriate earthing plug. Connection to the mains only through a special feed point, e.g. through an error protection insallation with INF < 30 mA.

DANGER — Work or repairs at the electrical equipment may only be carried out by a skilled electrician. No liability is assumed for incorrect installation. Switch the unit off. Before all repair work, unplug the power plug from the outlet.

Danger of short-circuits caused by water ingressing into the electrical equipment. Never spray down the unit with high-pressure or high-pressure steam cleaners.

Work or repairs at the electrical equipment:

These may only be carried out by a skilled electrician. No liability is assumed for incorrect installation.

1.3 Electrostatic charging (formation of sparks or flames)

Electrostatic charging of the unit may occur during spraying due to the flow speed of the coating material. These can cause sparks and flames upon discharge. The unit must therefore always be earthed via the electrical system. The unit must be connected to an appropriately-grounded safety outlet.

An electrostatic charging of spray guns and the high-pressure hose is discharged through the high-pressure hose. For this reason the electric resistance between the connections of the high-pressure hose must be equal to or lower than 1 MΩ.

2. General view of application

2.1 Application

= Recommended = Not-recommended

Materials	Object Size	Model						
		PS 3.21	PS 3.23	PS 3.25	PS 3.29	PS 3.31	PS 3.34	PS 3.39
Release agents, oils, undercoats, primers, fillers, synthetic resin-based paints, acrylic paints recommended nozzle size: FineFinish 0.008“ - 0.014“	up to 200 m² 200 m² - 800 m² more than 800 m²							
Emulsion paints, latex paints recommended nozzle size: 0.017“ - 0.027“	up to 200 m² 200 m² - 800 m² more than 800 m²							
Anti-corrosive agents, flame retardants, fabric adhesive recommended nozzle size: 0.021“ - 0.031“	up to 200 m² 200 m² - 800 m² more than 800 m²							
Airless-scrapers recommended nozzle size: 0.027“ - 0.039“	up to 200 m² 200 m² - 800 m² more than 800 m²							

2.2 Coating materials

Processible coating materials

Pay attention to the Airless quality of the coating materials to be processed.

Dilutable lacquers and paints or those containing solvents, two-component coating materials, dispersions, latex paints.

No other materials should be used for spraying without WAGNER's approval.

Filtering

Despite suction filter and insertion filter in the spray gun, filtering of the coating material is generally advisable.

Stir coating material before commencement of work.

Attention: Make sure, when stirring up with motor-driven agitators that no air bubbles are stirred in. Air bubbles disturb when spraying and can, in fact, lead to interruption of operation.

Viscosity

With this unit it is possible to process highly viscous coating materials of up to around 30.000 MPa·s.

If highly viscous coating materials cannot be taken in by suction, they must be diluted in accordance with the manufacturer's instructions.

Two-component coating material

The appropriate processing time must be adhered to exactly. Within this time rinse through and clean the unit meticulously with the appropriate cleaning materials.

Coating materials with sharp-edged additional materials

These have a strong wear and tear effect on valves, high-pressure hose, spray gun and tip. The durability of these parts cane be reduced appreciably through this.

3. Description of unit

3.1 Airless process

The main areas of application are thick layers of highly viscous coating material for large areas and a high consumption of material.

A piston pump takes in the coating material by suction and conveys it to the tip. Pressed through the tip at a pressure of up to a maximum of 221 bar (22,1 MPa), the coating material is atomised. This high pressure has the effect of micro fine atomisation of the coating material.

As no air is used in this process, it is described as an AIRLESS process.

This method of spraying has the advantages of finest atomisation, cloudless operation and a smooth, bubble-free surface. As well as these, the advantages of the speed of work and convenience must be mentioned.

3.2 Functioning of the unit

In the following there is a short description of the technical construction for better understanding of the function.

WAGNER ProSpray units are electrically driven high-pressure spraying units.

A gear unit transfers the driving force to a crankshaft. The crankshaft moves the pistons of the material feed pump up and down.

The inlet valve is opened automatically by the upwards movement of the piston. The outlet valve is opened when the piston moves downward.

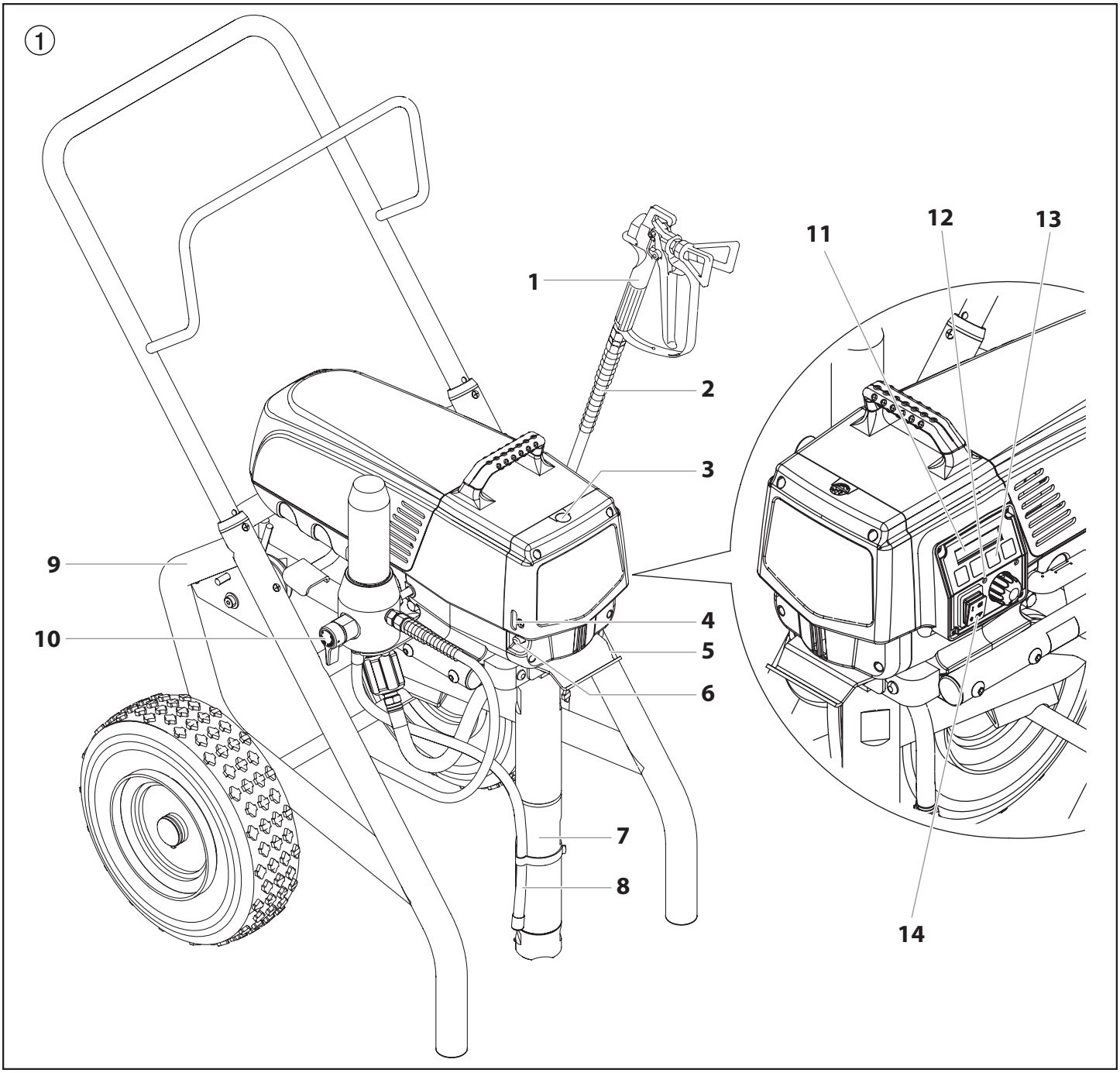
The coating material flows under high pressure through the high-pressure hose to the spray gun. When the coating material exits from the tip it atomizes.

The pressure regulator controls the volume and the operating pressure of the coating material.

3.3 Legend for explanatory diagram ProSpray 3.39

1 Spray gun
2 High-pressure hose
3 Oil cup for EasyGlide (EasyGlide prevents increased wear of the packings)
4 Oil level gauge
5 Pail hook
6 Oil button
7 Suction tube
8 Return hose
9 Cart
10 Relief valve
Lever position vertical – PRIME (circulation)
Lever position horizontal – SPRAY ( )
11 Digital Electronic Spray Control (DESC)
12 Control panel indicators
13 Pressure control knob
14 ON/OFF switch

3.4 Explanatory diagram ProSpray 3.39



3.5 Technical data

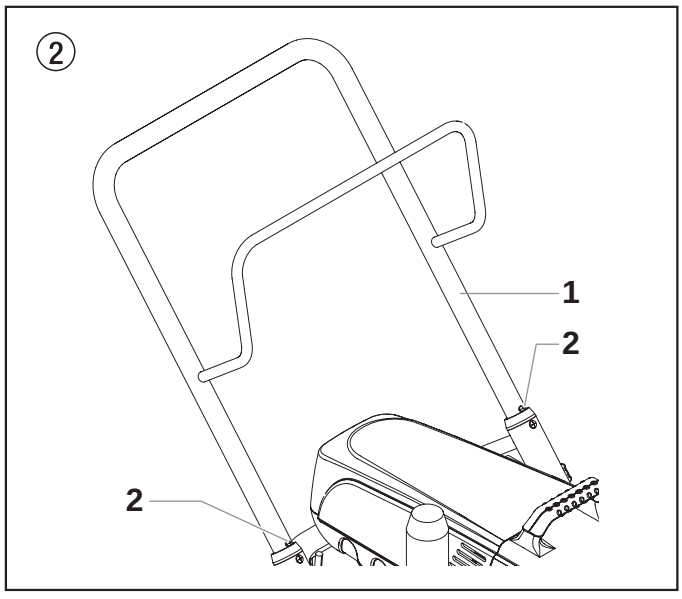
Voltage:	100-110 Volt AC, 50 Hz
Max. current consumption:	15 A / 20 A
Power cord:	3 x 1.5 mm² – 6 m or 4.6 m
Acceptance capacity:	2000 Watt
Max. operating pressure:	221 bar (22,1 MPa)
Volume flow at 12 MPa (120 bar) with water:	5.0 l/min
Max tip size:	0.039 inch – 0.99 mm
Max. temperature of the coating material:	43°C
Max viscosity:	30.000 MPa·s
Weight:	50 kg
Special high-pressure hose:	DN 6 mm, 15 m, connection thread M 16 x 1.5
Dimensions (L X W X H):	632 x 568 x 743 mm
Max sound pressure level:	80 dB (A) *

* Place of measuring: 1 m in distance from the unit and 1.6 m above the floor, 12 MPa (120 bar) operating pressure, reverberant floor.

3.6 Transportation

Pushing or pulling the unit

Pull out the handle (Fig. 2, Item 1) until it will come no further. Insert the handle – push the buttons (2) on the spars, and then push in the handle.



3.7 Transportation in vehicle

Secure the unit with a suitable fastening.

3.8 Paint material setup

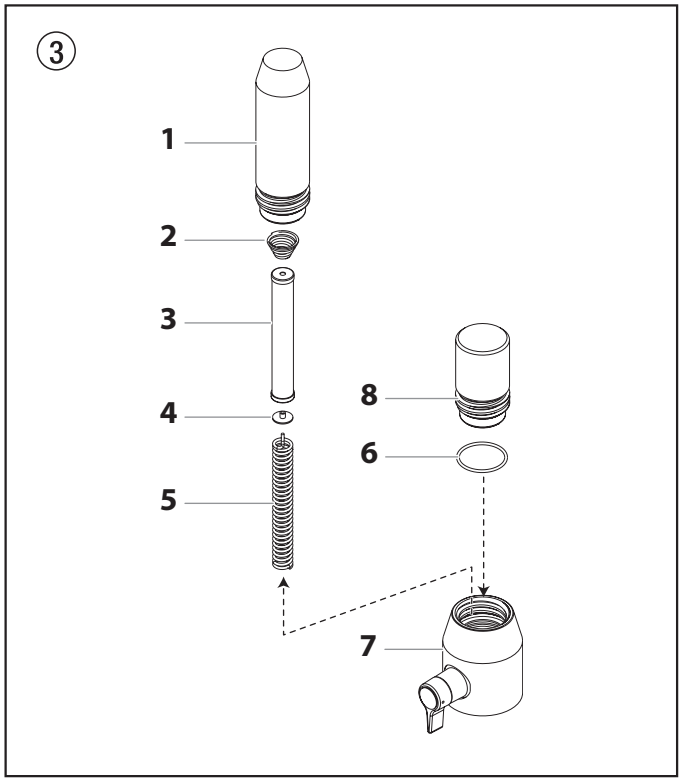
This sprayer comes with a filter assembly installed. If you plan to spray with untextured painting materials, leave the filter installed.

3.9 Textured material setup

This sprayer comes with a filter plug that should be put in place of the filter whenever spraying textured materials. Follow these steps to remove the filter and install the plug.

1. Loosen and remove the filter housing (1) by hand.
2. Remove the adapter spring (2), filter (3), bearing ring (4) and spring (5) from the housing (7).
3. Make sure the O-ring (6) is still in place. Thread the filter plug (8) into the housing until secure.

The filter plug should be hand-tightened, but make sure it is seated fully into the filter housing.



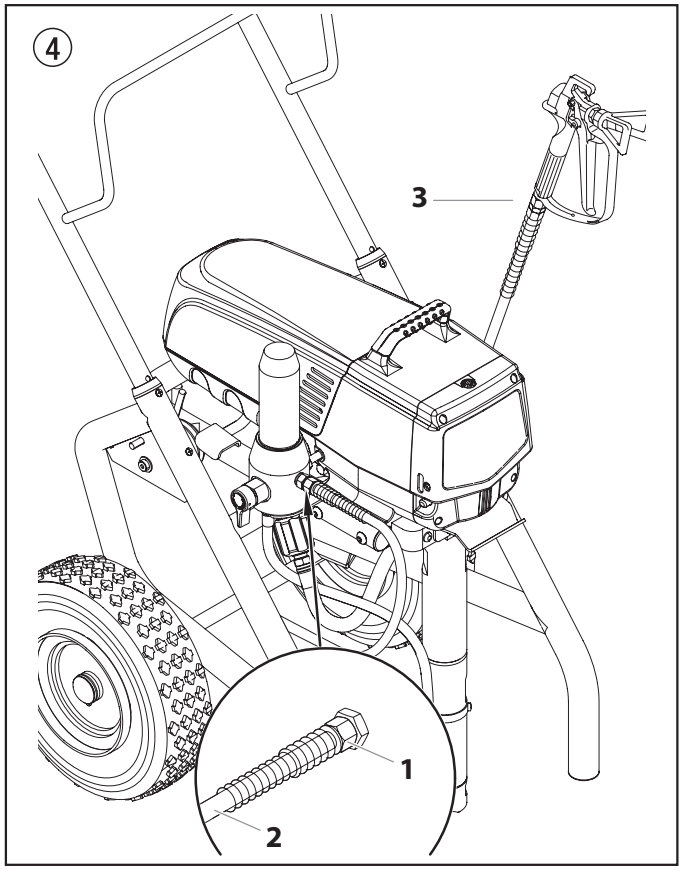
If using this sprayer with textured materials, it is important that the filter inside of the spray gun be removed. See section 8.3.

If the sprayer will be used for spraying textured products, removal of the inlet screen in the foot valve may be necessary. This will allow proper priming and flow of the textured product. See section 8.4.

4. Starting operation

4.1 High-pressure hose, spray gun and separating oil

1. Screw the high-pressure hose (2) to the coating material outlet (Fig. 4, Item 1).
2. Screw the spray gun (3) with the selected tip onto the high-pressure hose.
3. Tighten the union nuts at the high-pressure hoses firmly so that coating material does not leak.

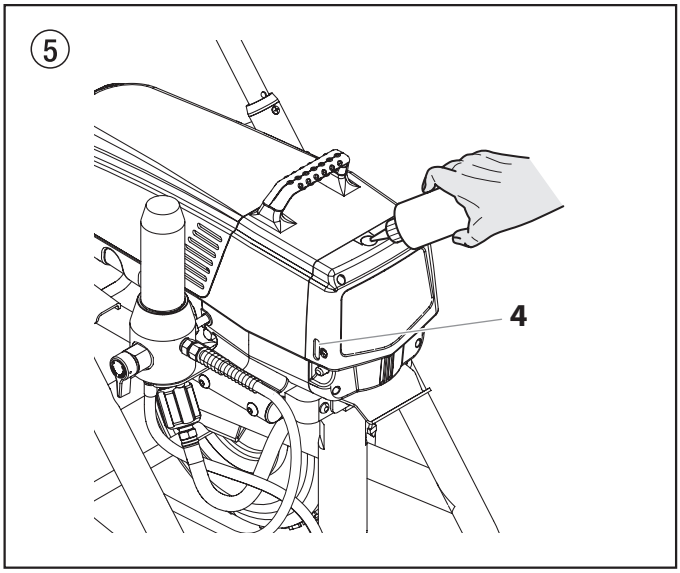


4. Remove the oil cup cap with a straight-slot screwdriver.
5. Fill the oil cup with EasyGlide (Fig. 5) until the oil gauge (4) is showing that it is full.

Attention

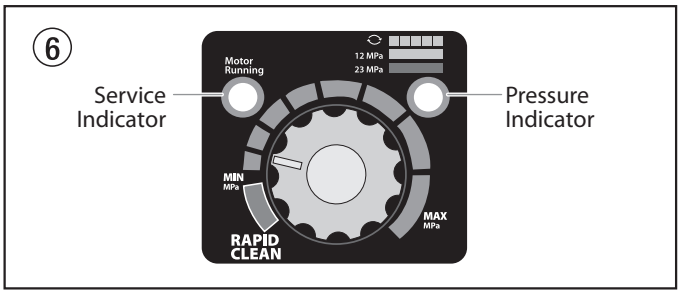
EasyGlide prevents increased wear and tear to the packings.

6. Replace oil cup cap.
7. Press oil button 2-5 times to prime the oiler. Press once for every eight hours of usage to lubricate the fluid section.



4.2 Control Panel Indicators

The following is a description of the control panel indicators.



Pressure Indicator

The pressure indicator shows the current operating pressure of the sprayer. It has three different indications: blinking yellow, solid yellow, and solid green.

Blinking Yellow

When the pressure indicator is blinking yellow, the sprayer is operating between 0 and 1.4 MPa (14 bar). A blinking yellow pressure indicator means:

- The sprayer is plugged in and turned "ON"
- The sprayer is at priming pressure (little or no pressure)
- It is safe to move the relief valve between positions
- It is safe to change or replace the spray tip

If the pressure indicator begins blinking yellow when the pressure control knob is set at a higher pressure and the relief valve is in the SPRAY position, either the spray tip is worn or the sprayer is in need of service/repair.

Solid Yellow

When the pressure indicator is solid yellow, the sprayer is operating between 1.4 MPa (14 bar) and 12 MPa (120 bar). A solid yellow pressure indicator means:

- The sprayer is at the proper pressure setting for spraying stain, lacquer, varnish, and multi-colors

Solid Green

When the pressure indicator is solid green, the sprayer is operating between 12 MPa (120 bar) and 23 MPa (230 bar). A solid green pressure indicator means:

- The sprayer is at the proper pressure setting for spraying oil-based and latex house paints
- The sprayer is operating at peak performance at a high pressure setting
- If the pressure indicator goes to solid yellow when the pressure is set so that it starts at solid green, it indicates one of the following:

a. **Tip Wear Indicator** — when spraying with latex or at high pressure the solid yellow appears. This means the tip is worn and needs to be replaced.

b. **Tip Too Large** — when a tip that is too large for the sprayer is put in the gun, the pressure indicator will turn from solid green to solid yellow.

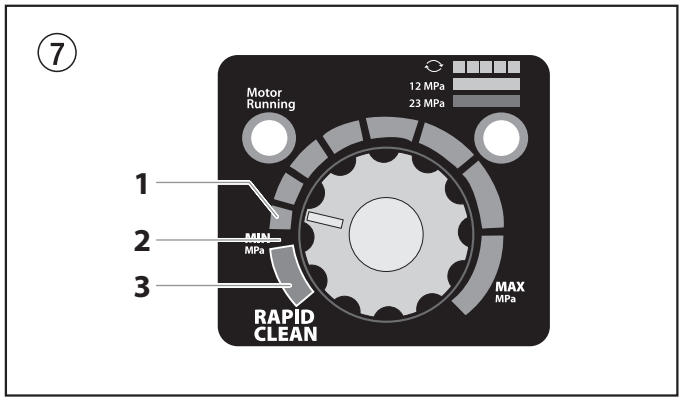
c. **Fluid Section Wear** — if a solid yellow pressure indicator appears when using a new tip and the pressure is set at maximum, service may be required (worn packings, worn piston, stuck valve, etc...).

Service Indicator

The Service indicator is on when the motor is commanded to run. This indicator is used by service centers to troubleshoot motor problems.

4.3 Pressure control knob settings (Fig. 7)

1. Minimum pressure setting
2. Black zone – no pressure generation
3. Blue zone – pulsating pressure for cleaning



4.4 Connection to the mains network

Attention

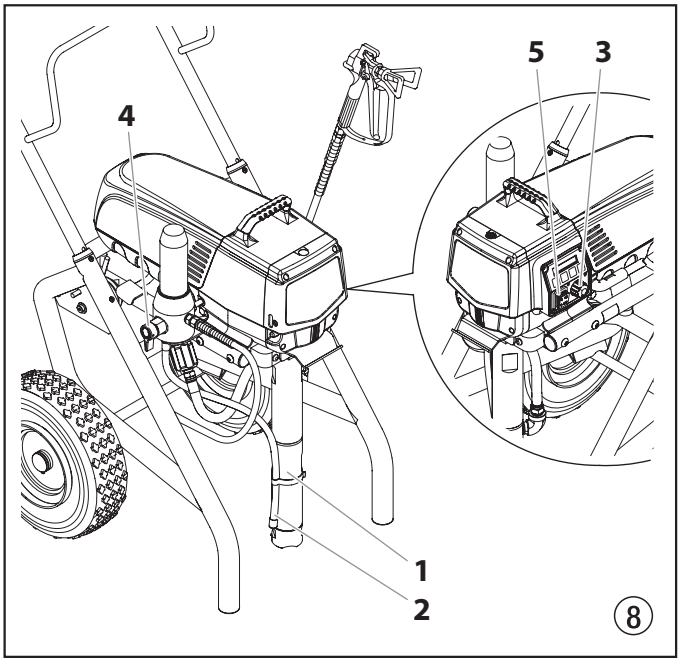
The unit must be connected to an appropriately-grounded safety outlet.

Before connecting the unit to the mains supply, ensure that the line voltage matches that specified on the unit's rating plate.

The connection must be equipped with a residual current protective device with INF ≤ 30 mA.

4.5 Cleaning preserving agent when starting-up of operation initially

1. Immerse the suction tube (Fig. 8, Item 1) and return hose (2) into a container with a suitable cleaning agent.
2. Turn the pressure control knob counterclockwise (3) to minimum pressure.
3. Open the relief valve (4), valve position PRIME (↻ circulation).
4. Switch the unit (5) ON.
5. Wait until the cleaning agent exudes from the return hose.
6. Close the relief valve, valve position SPRAY (⪾ spray).
7. Pull the trigger of the spray gun.
8. Spray the cleaning agent from the unit into an open collecting container.



4.6 Taking the unit into operation with coating material

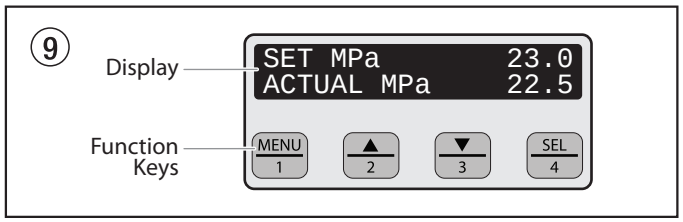
1. Immerse the suction tube (Fig. 8, Item 1) and return hose (2) into the coating material container.
2. Turn the pressure control knob counterclockwise (3) to minimum pressure.
3. Open the relief valve (4), valve position PRIME (↻ circulation).
4. Switch the unit (5) ON.
5. Wait until the coating material exudes from the return hose.
6. Close the relief valve, valve position SPRAY (⪾ spray).
7. Trigger the spray gun several times and spray into a collecting container until the coating material exits the spray gun without interruption.
8. Increase the pressure by slowly turning up the pressure control knob.

   Check the spray pattern and increase the pressure until the atomization is correct.

   Always turn the pressure control knob to the lowest setting with good atomization.
9. The unit is ready to spray.

4.7 Digital Electronic Spray Control (DESC)

The Digital Electronic Spray Control (DESC) increases the functionality of the sprayer. It is installed directly below the pressure control knob on the control panel. It consists of a display and four function keys. The display shows various menu screens that allow the user to customize and monitor sprayer operation using the function keys.



The pressure control knob overrides the Digital Electronic Spray Control (DESC) settings. Anytime the pressure control knob is turned, the sprayer pressure will change accordingly.

Function Keys

The function keys are numbered 1–4. Each key is labeled with an additional function as well.

#1/Menu Key

Pressing the #1 key scrolls through the available menu screens or performs a function described on the active menu screen.

#2/▲ Key

Pressing the #2 key performs a function described on the active menu screen or increases a value.

#3/▼ Key

Pressing the #3 key performs a function described on the active menu screen or decrease a value.

#4/Select Key

Pressing the #4 key selects the active menu screen or performs a function described on the active menu screen.

Menu Screens

Several menu screens are available for the user to customize and monitor sprayer operation. They include Main Screen, Volume Pumped, Job Volume, Unit Serial #, Timers, Job Timers, Service Time, Security Code, Prime, and Rapid Clean.

Main Screen

The Main Screen is the default screen for the control system at sprayer startup.

```
SET MPa        23.0
ACTUAL MPa     22.5
```

Pressing the #2 key switches between PSI, Bar and MPa units of measure. Press the #1 key to scroll through the remaining menu screens.

For sprayers equipped with an nine-language Digital Electronic Spray Control (DESC):

Pressing the #2 key at the Main Screen switches between PSI, Bar and MPa units of measure.

Current Select Screen

The Current Select screen allows you to toggle between operating in 15 Amp or 20 Amp mode.

```
  CURRENT SELECT
MENU-1    SELECT-4
```

To select the Current Select screen, press the #4 key. Pressing the #2 or #3 allows you to choose the desired mode. When the screen displays the desired mode, press the #1 key to save and return to the remaining menu screens.

Volume Pumped Screen

The Volume Pumped screen shows the total number of gallons or liters sprayed by the sprayer.

```
  VOLUME PUMPED
MENU-1    SELECT-4
```

To select the Volume Pumped screen, press the #4 key.

```
GALLONS         X
MENU-1    LITRES-2
```

```
LITRES          X
MENU-1    GALLONS-2
```

Job Volume Screen

The Job Volume screen allows the user to reset a liter counter to track usage on specific jobs.

```
   JOB VOLUME
MENU-1    SELECT-4
```

To select the Job Volume screen, press the #4 key.

```
GALLONS       XXXX
MENU-1     RESET-3
```

Unit Serial # Screen

The Unit Serial # screen shows the sprayers serial number.

```
  UNIT SERIAL #
MENU-1    SELECT-4
```

To select the Unit Serial # screen, press the #4 key.

```
SER # XXXXXXXXXX
MENU-1
```

Timers Screen

The Timers screen shows the total time the sprayer has been turned on as well as the total time the sprayer has been running (pumping).

```
      TIMERS
MENU-1    SELECT-4
```

To select the Timers screen, press the #4 key.

```
ON TIME       XXXX
RUN TIME      XXXX
```

Job Timers Screen

The Job Timers screen allows the user to reset the "ON TIME" and "RUN TIME" to track time on specific jobs.

```
   JOB TIMERS
MENU-1    SELECT-4
```

To select the Job Timers screen, press the #4 key. "JOB ON" screen will appear. Press #3 to reset. Press #1 to continue to "JOB RUN" screen. Press #3 to reset. Press #1 to scroll through the remaining menu screens.

```
JOB ON        X
MENU-1     RESET-3
```

```
JOB RUN       X
MENU-1     RESET-3
```

Service Time Screen

The Service Time screen allows the user to set a service time interval (in hours). Below the set time, the screens shows the current amount of hours on the sprayer since the last activation of the service timer. To select the Service Timer screen, press the #4 key.

```
  SERVICE TIME
MENU-1    SELECT-4
```

To set the service time, press the #2 (up) and/or the #3 (down) keys to the desired time (run hours will increase/decrease in increments of 25 for each time you press a key).

```
SERVICE @     XX
RUN HOURS     XX
```

When the service time interval is set and met by the run hours, the display will show a "Service Required" screen. The pump will remain functional. To return to the Main Screen, press the #1 key. Doing so will reset the "Service @" and "Run Hours" displayed on the Service Screen back to 0.

Security Code Screen

The Security Code screen allows the user to set a four digit security code to prevent unauthorized use of the sprayer. If a security code has been set, the control system display will ask for the code at startup. If the correct code is entered, the display will show the Main Screen and the sprayer will operate. If the wrong code is entered, the display will continue to ask for the correct code and the sprayer will be disabled. To set or change the security code, press the #2 key.

```
SECURITY CODE
MENU-1     CHANGE-2
```

If the sprayer is new, no security code is set and the Main Screen will appear at startup. When setting a security code for the first time, the "Enter Old Code Number" screen will appear, and you will need to enter "1111".

```
ENTER OLD CODE
NUMBER
```

Enter the old security code number to access the screen that allows the code change. If the wrong code is entered, the display will continue to ask for the correct code and the security code cannot be changed.

```
ENTER NEW CODE
NUMBER    XXXX
```

```
RE-ENTER NEW
NUMBER    XXXX
```

```
NEW CODE NUMBER
ACCEPTED
```

Enter the new security code. Once the new code is entered, the display will automatically ask that the new code be re-entered for verification. If the same new code is re-entered, the display will confirm that the new code has been accepted and return to the Main Screen. If the new code is re-entered incorrectly, the display will return to the "Enter New Code Number" screen and the process will repeat.

If you forget or misplace your security code, you can contact Wagner customer service for assistance.

To inactivate the security function, enter "1111" at the "Enter New Code Number" screen (this is the default code that leaves the sprayer unlocked). As a result, the Main Screen will appear at sprayer startup.

Prime Screen

```
PRIME
```

The Prime screen appears when the pressure control knob is set at the "MIN" setting.

Rapid Clean Screen

```
RAPID CLEAN
```

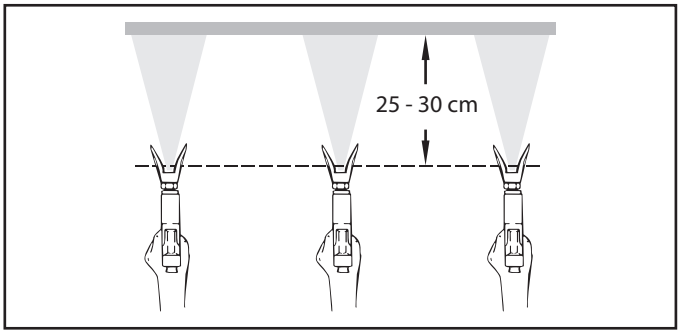
The Rapid Clean screen appears when the pressure control knob is set at the RAPID CLEAN position and the PRIME/SPRAY valve is in the PRIME position.

If there is no action at any menu screen for 30 seconds, the display will go back to the Main Screen.

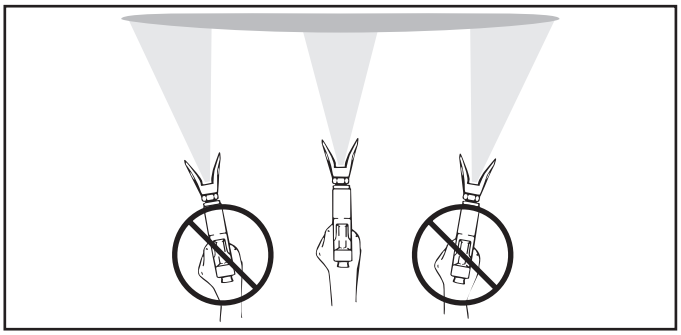
5. Spraying technique

Injection hazard. Do not spray without the tip guard in place. NEVER trigger the gun unless the tip is completely turned to either the spray or the unclog position. ALWAYS engage the gun trigger lock before removing, replacing or cleaning tip.

The key to a good paint job is an even coating over the entire surface. Keep your arm moving at a constant speed and keep the spray gun at a constant distance from the surface. The best spraying distance is 25 to 30 cm between the spray tip and the surface.

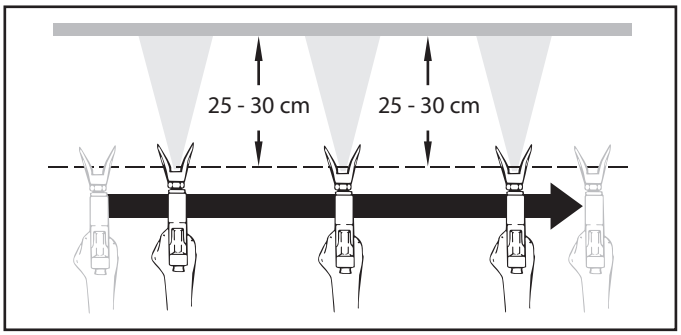


Keep the spray gun at right angles to the surface. This means moving your entire arm back and forth rather than just flexing your wrist.



Keep the spray gun perpendicular to the surface, otherwise one end of the pattern will be thicker than the other.

Trigger gun after starting the stroke. Release the trigger before ending the stroke. The spray gun should be moving when the trigger is pulled and released. Overlap each stroke by about 30%. This will ensure an even coating.



If very sharp edges result or if there are streaks in the spray jet – increase the operating pressure or dilute the coating material.

6. Handling the high-pressure hose

The unit is equipped with a high-pressure hose specially suited for piston pumps.

Danger of injury through leaking high-pressure hose. Replace any damaged high-pressure hose immediately.

Never repair defective high-pressure hoses yourself!

The high-pressure hose is to be handled with care. Avoid sharp bends and folds: the smallest bending radius is about 20 cm.

Do not drive over the high-pressure hose. Protect against sharp objects and edges.

Never pull on the high-pressure hose to move the device.

Make sure that the high-pressure hose cannot twist. This can be avoided by using a Wagner spray gun with a swivel joint and a hose system.

When using the high-pressure hose while working on scaffolding, it is best to always guide the hose along the outside of the scaffolding.

The risk of damage rises with the age of the high-pressure hose. Wagner recommends replacing high-pressure hoses after 6 years.

Use only WAGNER original-high-pressure hoses in order to ensure functionality, safety and durability.

7. Interruption of work

1. Open the relief valve, valve position PRIME (↻ circulation).
2. Switch the unit OFF.
3. Turn the pressure control knob counterclockwise to minimum pressure.
4. Pull the trigger of the spray gun in order to release the pressure from the high-pressure hose and spray gun.
5. Secure the spray gun, refer to the operating manual of the spray gun.
6. If a standard tip is to be cleaned, see Page 19, Section 12.2.
   If a non-standard tip is installed, proceed according to the relevant operating manual.
7. Depending on the model, leave the suction tube or the suction hose and return hose immersed in the coating material or swivel or immerse it into a corresponding cleaning agent.

Attention

If fast-drying or two-component coating material is used, ensure that the unit is rinsed with a suitable cleaning agent within the processing time.

8. Cleaning the unit (shutting down)

A clean state is the best method of ensuring operation without problems. After you have finished spraying, clean the unit. Under no circumstances may any remaining coating material dry and harden in the unit.

The cleaning agent used for cleaning (only with an ignition point above 21 °C) must be suitable for the coating material used.

- **Secure the spray gun**, refer to the operating manual of the spray gun.

Clean and remove tip.

For a standard tip, refer to Page 19, Section 12.2.

If a non-standard tip is installed, proceed according to the relevant operating manual.

1. Remove suction hose from the coating material.
2. Close the relief valve, valve position SPRAY (↱ spray).
3. Switch the unit ON.
4. Pull the trigger of the spray gun in order to pump the remaining coating material from the suction hose, high-pressure hose and the spray gun into an open container.

Attention

The container must be earthed in case of coating materials which contain solvents.

Caution! Do not pump or spray into a container with a small opening (bunghole)!

Refer to the safety regulations.

5. Immerse suction hose with return hose into a container with a suitable cleaning agent.
6. Turn the pressure control knob into the blue zone - pulsating pressure for unit cleaning.
7. Open the relief valve, valve position PRIME (↻ circulation).
8. Pump a suitable cleaning agent in the circuit for a few minutes.
9. Close the relief valve, valve position SPRAY (↱ spray).
10. Pull the trigger of the spray gun.
11. Pump the remaining cleaning agent into an open container until the unit is empty.
12. Switch the unit OFF.

8.1 Cleaning unit from outside

First of all pull out mains plug from socket.

Attention

Danger of short circuit through panetrating water!

Never spray down the unit with high-pressure or high-pressure steam cleaners.

Attention

Do not put the high-pressure hose into solvents. Use only a wet cloth to wipe down the outside of the hose.

Wipe down unit externally with a cloth which has been immersed in a suitable cleaning agent.

8.2 Cleaning the high-pressure filter

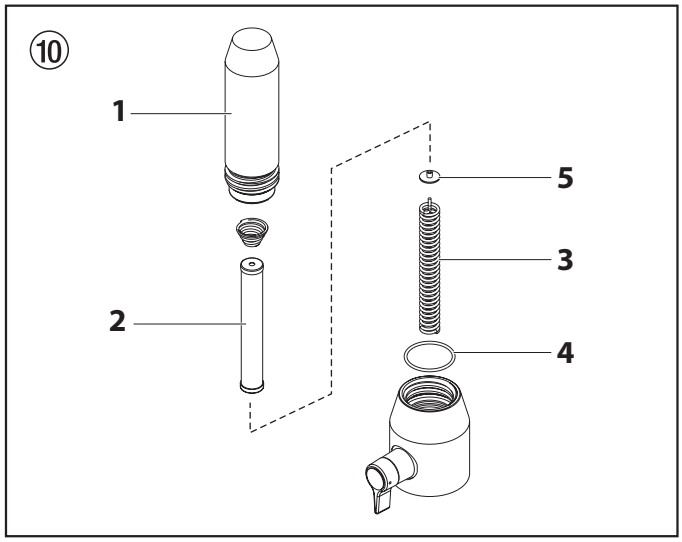
Clean the filter cartridge regularly.

A soiled or clogged high-pressure filter can cause a poor spray pattern or a clogged tip.

1. Turn the pressure regulator knob into the black zone until it stops (no pressure).
2. Open the relief valve, valve position PRIME (↻ circulation).
3. Switch the unit OFF.

Unplug the power plug from the outlet.

4. Unscrew the filter housing (Fig. 10, Item 1). with a strap wrench.
5. Pull the filter cartridge (2) from the bearing spring (3).
6. Clean all the parts with the corresponding cleaning agent. If necessary, replace the filter cartridge.
7. Check the O-ring (4), replace it if necessary.
8. Place the bearing ring (5) against the bearing spring (3). Slide the filter cartridge (2) over the bearing spring.
9. Screw in filter housing (1) and tighten it as far as possible with the strap wrench.



8.3 Cleaning Airless spray gun

1. Rinse Airless spray gun with an appropriate cleaning agent.
2. Clean tip thoroughly with appropriate cleaning agent so that no coating material residue remains.
3. Thoroughly clean the outside of the Airless spray gun.

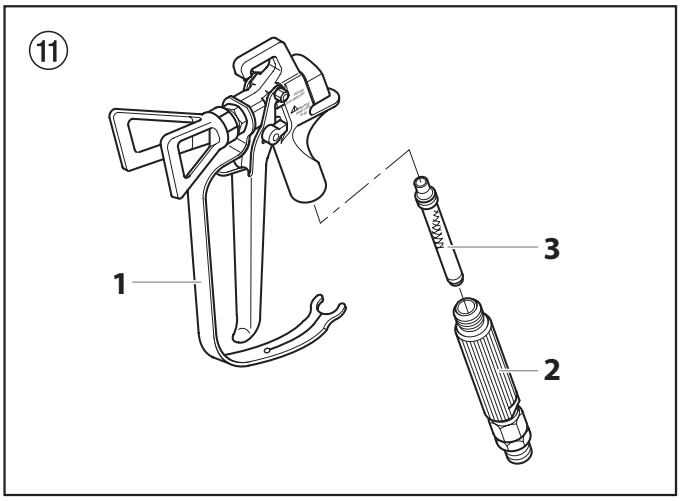
Intake filter in Airless spray gun

Disassembly (Fig. 11)

1. Pull protective guard (1) forward vigorously.
2. Screw grip (2) out of the gun housing. Remove intake filter (3).
3. Intake filter congested or defective – replace.

Assembly

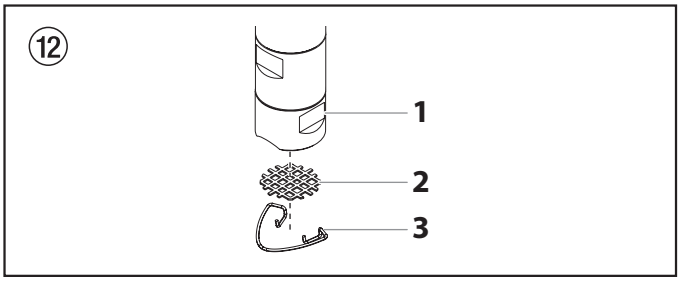
1. Place intake filter (3) with the long cone into the gun housing.
2. Screw in grip (2) into the gun housing and tighten.
3. Slot in protective guard (1).



8.4 Cleaning the inlet screen

The inlet screen will clog and must be cleaned at least once a day.

1. Remove the retaining ring (3) from the foot valve (1) housing.
2. Remove the inlet screen (2) from the foot valve housing (1).
3. Clean thoroughly with the appropriate solvent.



9. Remedy in case of faults

Type of malfunction	Possible cause	Measures for eliminating the malfunction
A. Unit does not start	1. No voltage applied. 2. Pressure setting too low. 3. ON/OFF switch defective.	1. Check voltage supply. 2. Turn up pressure control knob. 3. Replace.
B. Unit does not draw in material	1. Relief valve is set to SPRAY (spray). 2. Filter projects over the fluid level and sucks air. 3. Filter clogged. 4. Suction hose/suction tube is loose, i.e. the unit is sucking in outside air.	1. Set relief valve to PRIME (circulation). 2. Refill the coating material. 3. Clean or replace the filter. 4. Clean connecting points. Tighten suction tube.
C. Unit draws in material, but the pressure does not build up	1. Tip heavily worn. 2. Tip too large. 3. Pressure setting too low. 4. Filter clogged. 5. Coating material flows through the return hose when the relief valve is in the SPRAY (spray) position. 6. Packings sticky or worn. 7. Valve balls worn. 8. Valve seats worn.	1. Replace 2. For selection of a smaller tip, see Tip table on Page 20. 3. Turn pressure control knob clockwise to increase. 4. Clean or replace the filter. 5. Remove and clean or replace relief valve. 6. Remove and clean or replace packings. 7. Remove and replace valve balls. 8. Remove and replace valve seats.
D. Coating material exits at the top of the fluid section	1. Upper packing is worn. 2. Piston is worn.	1. Remove and replace packing. 2. Remove and replace piston.
E. Increased pulsation at the spray gun	1. Incorrect high-pressure hose type. 2. Tip worn or too large. 3. Pressure too high.	1. Only use WAGNER original-high-pressure hoses in order to ensure functionality, safety and durability. 2. Replace tip. 3. Turn pressure control knob to a lower number.
F. Poor spray pattern	1. Tip is too large for the coating material which is to be sprayed. 2. Pressure setting incorrect. 3. Volume too low. 4. Coating material viscosity too high.	1. Replace tip, see Tip table on Page 20. 2. Turn pressure control knob until a satisfactory spraying pattern is achieved. 3. Clean or replace all filters. 4. Thin out according to the manufacturer's instructions.
G. Unit loses power	1. Pressure setting too low.	1. Turn pressure control knob clockwise to increase.

Digital Electronic Spray Control (DESC) Error Messages

The following error message screens appear whenever the Digital Electronic Spray Control (DESC) detects a problem with the sprayer. Once a problem occurs and the error message appears, the sprayer will shut down.

Before proceeding, relieve any pressure remaining in the system (valve position PRIME). Additionally, follow all other warnings to reduce the risk of an injection injury, injury from moving parts or electric shock. Always unplug the sprayer before servicing!

Check Transducer Screen

The Check Transducer screen appears when the transducer has become disconnected or is defective. Take the sprayer to a Wagner authorized service center for repair.

Check Motor Screen

The Check Motor screen appears when the motor or motor sensor is defective. Take the sprayer to a Wagner authorized service center for repair.

Low Voltage Screen

The Low Voltage screen appears when the sprayer shuts down because of low input voltage. Check the power supply and correct the problem. Restart the sprayer.

High Motor Temperature Screen

The High Motor Temperature screen appears when the temperature of the motor has risen too high. Take the sprayer to a Wagner authorized service center for repair.

High Control Temperature Screen

The High Control Temperature screen appears when the temperature of the Digital Electronic Spray Control (DESC) has risen too high. Take the sprayer to a Wagner authorized service center for repair.

High Mechanical Load

The High Mechanical Load screen appears when the sprayer shuts down because of high current or when the sprayer goes into current fold back mode. Take the sprayer to a Wagner authorized service center for repair.

10. Servicing

10.1 General servicing

Servicing of the unit should be carried out once annually by the WAGNER service.

1. Check high-pressure hoses, device connecting line and plug for damage.
2. Check the inlet valve, outlet valve and filter for wear.

10.2 High-pressure hose

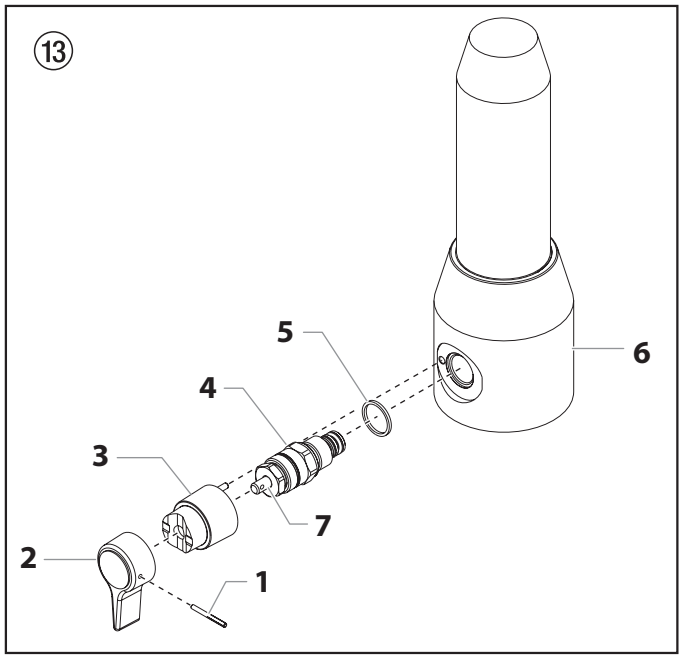
Inspect the high-pressure hose visually for any notches or bulges, in particular at the transition in the fittings. It must be possible to turn the union nuts freely.

11. Repairs at the unit

Switch the unit OFF.
Before all repair work: Unplug the power plug from the outlet.

11.1 Relief valve

1. Use a drift punch of 2 mm to remove the grooved pin (Fig. 13, Item 1) from the relief valve handle (2).
2. Remove the relief valve handle (2) and cam base (3).
3. Using a wrench, remove the valve housing (4).
4. Ensure that the seal (5) is seated correctly, then screw the new valve housing (4) completely into the filter block (6). Tighten securely with a wrench.
5. Align the cam base (3) with the hole in the filter block (6). Lubricate the cam base with grease and slide on the cam base.
6. Bring the hole in the valve shaft (7) and in the relief valve handle (2) into alignment.
7. Insert the grooved pin (1) to secure the relief valve handle in position.

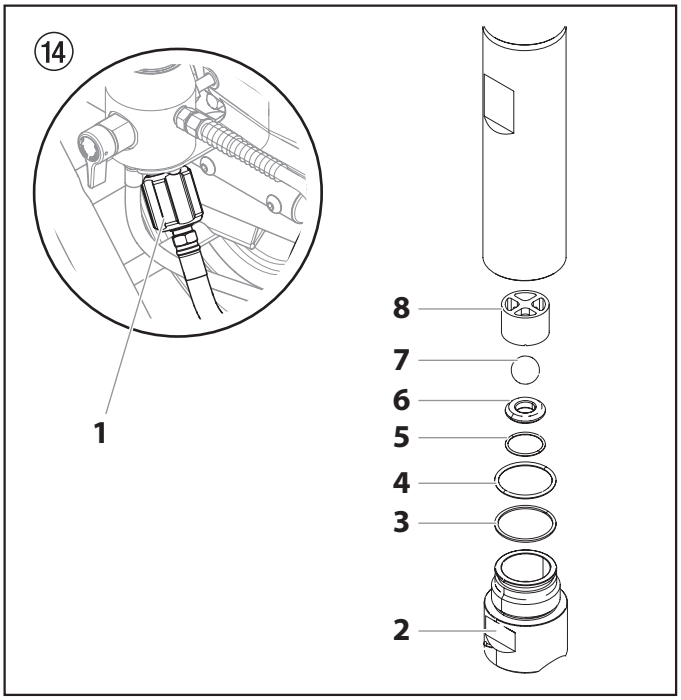


11.2 Inlet and outlet valve

1. Remove the four screws in the front cover and then remove the front cover.

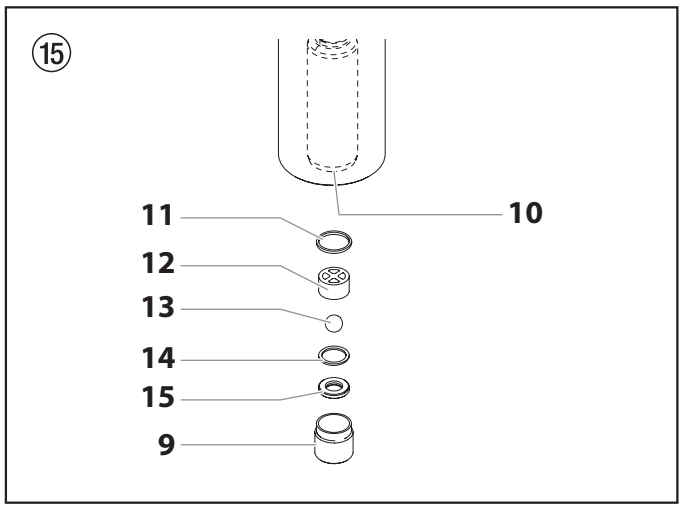
Danger of crushing - do not reach with the fingers or tool between the moving parts.

2. Turn the pressure control knob to minimum pressure. The Digi-Trac™ screen should say “PRIME”.
3. Press the #1 key on the Digi-Trac™ control panel. The “CREEP MODE” screen will now appear.
4. Slowly turn the pressure control knob clockwise to increase the pressure. The crankshaft/slider assembly will begin to move very slowly.
5. When it reaches the bottom, dead-center of its stroke, turn the pressure control knob back to minimum pressure. The crankshaft/slider assembly should stop.
6. Unplug the power plug from the outlet.
7. Pull off clamp on suction tube and remove return hose.
8. Unscrew the connection hose (Fig. 14, item 1) from the high-pressure filter.
9. Turn the knob on the side of the cart clockwise to unlock the cart. Tilt the cart backwards until it locks into place.
10. Loosen and remove the inlet valve housing (2) from the upper housing.
11. Remove bearing ring (3), O-ring (4), O-ring (5), inlet valve seat (6), inlet valve ball (7) and upper ball guide (8).
12. Clean all the parts with the corresponding cleaning agent.
    Check the inlet valve housing (2), inlet valve seat (6) and inlet valve ball (7) for wear and replace the parts if necessary. If the worn inlet valve seat (6) is unused on one side, install it the other way around.



13. Screw out outlet valve housing (Fig 15, item 9) from the piston (10) with 3/8 inch hexagon socket head wrench.
14. Remove the upper seal (11), upper ball guide (12), outlet valve ball (13), washer (14) and outlet valve seating (15).

15. Clean all the parts with the corresponding cleaning agent. Check outlet valve housing (9), outlet valve seat (15), outlet valve ball (13) and upper ball guide (12) for wear and replace parts if necessary. If the worn outlet valve seat (15) is unused on one side, install it the other way around.
16. Carry out installation in the reverse order.
17. If you plan to replace the fluid section packings, move on to section 11.3. If not, reassemble fluid section in the reverse order of how it was disassembled.



11.3 Packings

1. Remove inlet valve housing in accordance with the steps in Chapter 11.2, Page 16.
2. It is not necessary to remove the outlet valve.
3. Pull the lever on the underside of the sprayer toward the front of the sprayer. This will un-clamp the entire fluid section.
4. Slide the fluid section forward to remove it from the gear housing.
5. Place the fluid section cylinder upright in a vise by clamping on the wrench flats (Fig. 16, Item 1).

Do not over-tighten the vise. Damage to the cylinder may occur.

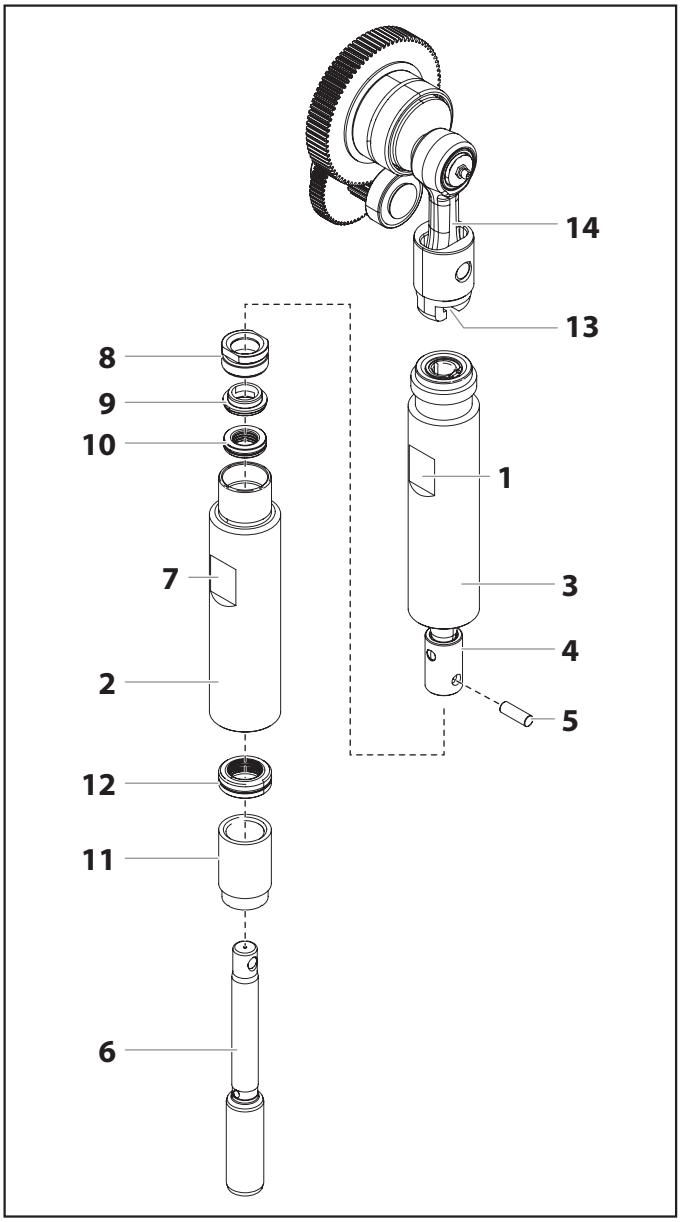
6. Turn the upper housing (2) counterclockwise to loosen it from the cylinder (3).
7. Slowly pull down the upper housing (2) just far enough to expose the extension slider (4) and the connecting pin (5) that connects the piston rod (6) to the extension slider (4).
8. Push the connecting pin out of the extension slider and piston rod and remove the piston rod and upper housing.
9. Place the upper housing upright in a vise by clamping on the wrench flats (7).

Do not over-tighten the vise. Damage to the upper housing may occur.

10. Using a wrench, remove the upper seal retainer (Fig. 16, Item 8).
11. Slide the piston rod (6) out through the bottom of the upper housing (2).
12. Inspect the piston rod (6) for wear and replace if necessary.
13. Remove the upper support ring (9) and upper packing assembly (10) from the top of the upper housing (2).
14. Remove the adapter (11) and lower packing assembly (12) from the bottom of the upper housing.

Be careful not to scratch, score, or otherwise damage the upper housing during removal of the packings.

16

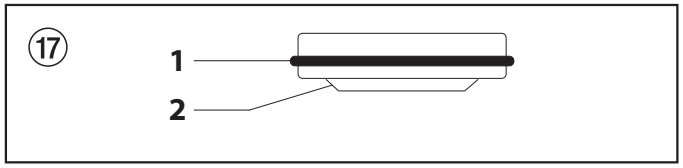


15. Clean the upper housing (2) and cylinder (3-5). Inspect the upper housing and cylinder for damage and replace if necessary.
16. Place the upper housing upright (2) in a vise by clamping on the wrench flats (7).
17. Locate the new upper and lower packings and remove the pre-form tools. Save the upper packing pre-form tool for use as the piston insertion tool later in this procedure.

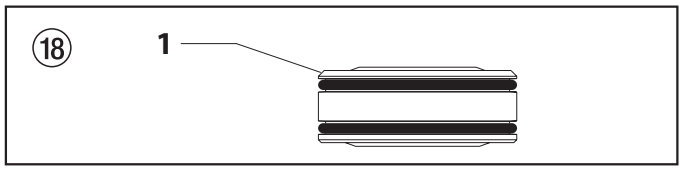
Do not remove the pre-form tools from the upper and lower packings until immediately before they are installed into the upper housing.

18. Lubricate upper packing (10) and lower packing (12) with machine grease.

19. Insert upper packing (Fig. 17) with O-ring (1) and protruding lip (2) downward.



20. Insert upper support ring (9) on top of the upper packing (10)
21. Thread the upper seal retainer (8) into the upper housing (2).
22. Rotate the upper housing in the vise so that the bottom end is facing up.
23. Insert the lower packing (Fig. 18) partially into the bottom of the cylinder with the large beveled edge (1) facing toward the cylinder (beveled edge will be facing up when the cylinder is upright).



24. Push the lower packing assembly (Fig. 16, Item 12) into position using the lower packing insertion tool (see Fluid Section Assembly parts list for lower packing insertion tool P/N).

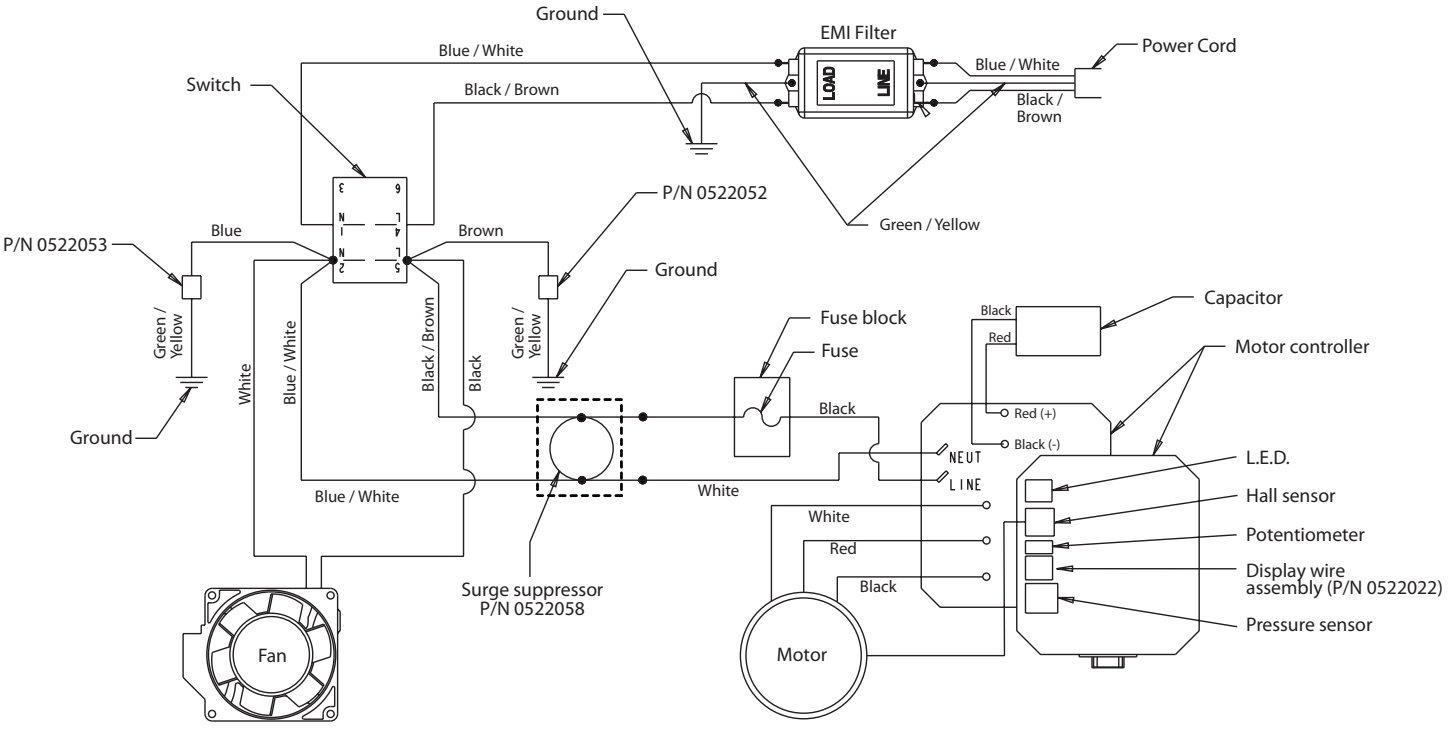
Coat the piston insertion tool (i.e. upper packing pre-form tool) and the piston rod with grease before inserting them into the upper housing.

25. Place the piston insertion tool over the top of the piston rod (6).
26. Insert the piston rod (6) into the bottom of the upper housing (2), through the lower packing assembly (12), through the upper packing assembly (10), and out through the upper seal retainer (8).

Make sure the raised lip on the bottom of the lower packing is fully outside the packing around the piston rod after insertion of the piston rod.

27. Remove the piston insertion tool from the top of the piston rod (6).
28. Lubricate the threads on the upper housing with anti-seize compound. Remove the upper housing from the vise.
29. Insert the piston rod into the extension slider. When the connecting pin hole on the piston rod lines up with the hole in the extension slider, insert the connecting pin.
30. Thread the upper housing into the cylinder, turning clockwise.
31. Continue to turn the upper housing clockwise until it is flush against the cylinder.
32. Replace the cylinder (3) back into the fluid section clamp on the gear housing. Make sure to slide the top of the piston rod extension into the T-slot (13) on the slider assembly (14).
33. Push the lever on the underside of the unit toward the rear of the sprayer to lock the fluid section back into place.
34. Insert the adapter (Fig. 16, item 11) into the bottom of the upper housing.
35. Making sure that the bearing ring (Fig. 14, item 3) and O-rings (Fig. 14, items 4-5) are lubricated and in place, reassemble the inlet valve assembly and and thread it into the upper housing. Tighten the inlet valve housing until the o-ring engages, then continue to tighten until snug. Once snug, tighten an additional 1/8–1/4 turn.
36. Replace the connection hose to the fitting on the high-pressure filter.
37. Replace the return hose into the clamp on the siphon tube.
38. Install front cover.

11.4 ProSpray 3.39 connection diagram



12. Appendix

12.1 Selection of tip

To achieve faultless and rational working, the selection of the tip is of the greatest importance.
In many cases the correct tip can only be determined by means of a spraying test.

Some rules for this:
The spray jet must be even.
If streaks appear in the spray jet the spraying pressure is either too low or the viscosity of the coating material to high.

Remedy: Increase pressure or dilute coating material. Each pump conveys a certain quantity in proportion to the size of the tip:
The following principle is valid: large tip = low pressure
small tip = high pressure

There is a large range of tips with various spraying angles.

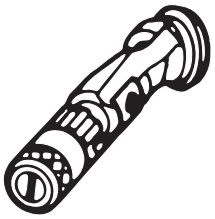
12.2 Servicing and cleaning of Airless hard-metal tips

Standard tips
If a different tip type has been fitted, then clean it according to manufacturer's instructions.
The tip has a bore processed with the greatest precision. Careful handling is necessary to achieve long durability. Do not forget the fact that the hard-metal insert is brittle! Never throw the tip or handle with sharp metal objects.

The following points must be observed to keep the tip clean and ready for use:

1. Turn the relief valve handle fully counterclockwise (↻ Circulation).
2. Switch off the gasoline engine.
3. Dismount the tip from the spray gun.
4. Place tip in an appropriate cleaning agent until all coating material residue is dissolved.
5. If there is pressure air, blow out tip.
6. Remove any residue by means of a sharp wooden rod (toothpick).
7. Check the tip with the help of a magnifying glass and, if necessary, repeat points 4 to 6.

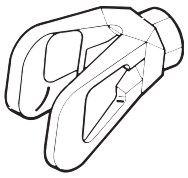
12.3 Spray gun accessories



Flat jet adjusting tip
up to 250 bar (25 MPa

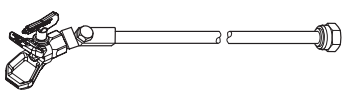
Tip marking	Bore mm	Spray width at about 30 cm removal of spray object Pressure 100 bar (10 MPa)	Use	Flat jet adjusting tip Order No.
15	0.13 - 0.46	5 - 35 cm	Paints	**0999 057**
20	0.18 - 0.48	5 - 50 cm	Paints, fillers	**0999 053**
28	0.28 - 0.66	8 - 55 cm	Paints, dispersions	**0999 054**
41	0.43 - 0.88	10 - 60 cm	Rust protection paints - dispersions	**0999 055**
49	0.53 - 1.37	10 - 40 cm	Large-area coats	**0999 056**

Contact protection
for the flat jet adjustment tip



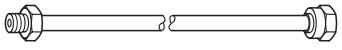
Order No. **0097 294**

Tip extension with slewable knee joint (without tip)



Length: 100 cm Order no. **0096 015**
Length: 200 cm Order no. **0096 016**
Length: 300 cm Order no. **0096 017**

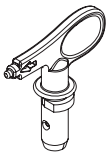
Tip extension



15 cm, F-thread, Order no. **0556 051**
30 cm, F-thread, Order no. **0556 052**
45 cm, F-thread, Order no. **0556 053**
60 cm, F-thread, Order no. **0556 054**

15 cm, G-thread, Order no. **0556 074**
30 cm, G-thread, Order no. **0556 075**
45 cm, G-thread, Order no. **0556 076**
60 cm, G-thread, Order no. **0556 077**

12.4 Airless tip table



Wagner TradeTip 3 tip
up to 270 bar
(27 MPa)

without tip
F thread (11/16 - 16 UN)
for Wagner spray guns
Order no. 0289391

without tip
G thread (7/8 - 14 UN)
for Graco/Titan spray guns
Order no. 0289390

All of the tips in the table below are supplied together with the appropriate gun filter.

Application	Tip marking	Spray angle	Bore inch / mm	Spraying width mm 1)	Gun filter	Order no.
Water-thinnable and solvent-based paints and varnishes, oils, separating agents	107	10°	0.007 / 0.18	100	red	0553107
	207	20°	0.007 / 0.18	120	red	0553207
	307	30°	0.007 / 0.18	150	red	0553307
	407	40°	0.007 / 0.18	190	red	0553407
	109	10°	0.009 / 0.23	100	red	0553109
	209	20°	0.009 / 0.23	120	red	0553209
	309	30°	0.009 / 0.23	150	red	0553309
	409	40°	0.009 / 0.23	190	red	0553409
	509	50°	0.009 / 0.23	225	red	0553509
	609	60°	0.009 / 0.23	270	red	0553609
Synthetic-resin paints PVC paints	111	10°	0.011 / 0.28	100	red	0553111
	211	20°	0.011 / 0.28	120	red	0553211
	311	30°	0.011 / 0.28	150	red	0553311
	411	40°	0.011 / 0.28	190	red	0553411
	511	50°	0.011 / 0.28	225	red	0553511
	611	60°	0.011 / 0.28	270	red	0553611
Paints, primers Fillers	113	10°	0.013 / 0.33	100	red	0553113
	213	20°	0.013 / 0.33	120	red	0553213
	313	30°	0.013 / 0.33	150	red	0553313
	413	40°	0.013 / 0.33	190	red	0553413
	513	50°	0.013 / 0.33	225	red	0553513
	613	60°	0.013 / 0.33	270	red	0553613
	813	80°	0.013 / 0.33	330	red	0553813
Fillers Rust protection paints	115	10°	0.015 / 0.38	100	yellow	0553115
	215	20°	0.015 / 0.38	120	yellow	0553215
	315	30°	0.015 / 0.38	150	yellow	0553315
	415	40°	0.015 / 0.38	190	yellow	0553415
	515	50°	0.015 / 0.38	225	yellow	0553515
	615	60°	0.015 / 0.38	270	yellow	0553615
	715	70°	0.015 / 0.38	300	yellow	0553715
	815	80°	0.015 / 0.38	330	yellow	0553815
Rust protection paints Latex paints Dispersions	117	10°	0.017 / 0.43	100	yellow	0553117
	217	20°	0.017 / 0.43	120	yellow	0553217
	317	30°	0.017 / 0.43	150	yellow	0553317
	417	40°	0.017 / 0.43	190	yellow	0553417
	517	50°	0.017 / 0.43	225	yellow	0553517
	617	60°	0.017 / 0.43	270	yellow	0553617
	717	70°	0.017 / 0.43	300	yellow	0553717
	817	80°	0.017 / 0.43	330	yellow	0553817
Rust protection paints Latex paints Dispersions	219	20°	0.019 / 0.48	120	white	0553219
	319	30°	0.019 / 0.48	150	white	0553319
	419	40°	0.019 / 0.48	190	white	0553419
	519	50°	0.019 / 0.48	225	white	0553519
	619	60°	0.019 / 0.48	270	white	0553619
	719	70°	0.019 / 0.48	300	white	0553719
	819	80°	0.019 / 0.48	330	white	0553819
	919	90°	0.019 / 0.48	385	white	0553919
Flame retardant	221	20°	0.021 / 0.53	120	white	0553221
	321	30°	0.021 / 0.53	150	white	0553321
	421	40°	0.021 / 0.53	190	white	0553421
	521	50°	0.021 / 0.53	225	white	0553521
	621	60°	0.021 / 0.53	270	white	0553621
	721	70°	0.021 / 0.53	300	white	0553721
	821	80°	0.021 / 0.53	330	white	0553821

1)Spray width at about 30 cm to the object and 100 bar (10 MPa) pressure with synthetic-resin paint 20 DIN seconds.

Application	Tip marking	Spray angle	Bore inch / mm	Spraying width mm 1)	Gun filter	Order no.
Roof coatings	223	20°	0.023 / 0.58	120	white	0553223
	323	30°	0.023 / 0.58	150	white	0553323
	423	40°	0.023 / 0.58	190	white	0553423
	523	50°	0.023 / 0.58	225	white	0553523
	623	60°	0.023 / 0.58	270	white	0553623
	723	70°	0.023 / 0.58	300	white	0553723
	823	80°	0.023 / 0.58	330	white	0553823
Thick-film materials, Corrosion protection Spray filler	225	20°	0.025 / 0.64	120	white	0553225
	325	30°	0.025 / 0.64	150	white	0553325
	425	40°	0.025 / 0.64	190	white	0553425
	525	50°	0.025 / 0.64	225	white	0553525
	625	60°	0.025 / 0.64	270	white	0553625
	725	70°	0.025 / 0.64	300	white	0553725
	825	80°	0.025 / 0.64	330	white	0553825
	227	20°	0.027 / 0.69	120	white	0553227
	327	30°	0.027 / 0.69	150	white	0553327
	427	40°	0.027 / 0.69	190	white	0553427
	527	50°	0.027 / 0.69	225	white	0553527
	627	60°	0.027 / 0.69	270	white	0553627
	827	80°	0.027 / 0.69	330	white	0553827
	229	20°	0.029 / 0.75	120	white	0553229
	329	30°	0.029 / 0.75	150	white	0553329
	429	40°	0.029 / 0.75	190	white	0553429
	529	50°	0.029 / 0.75	225	white	0553529
	629	60°	0.029 / 0.75	270	white	0553629
	231	20°	0.031 / 0.79	120	white	0553231
	331	30°	0.031 / 0.79	150	white	0553331
	431	40°	0.031 / 0.79	190	white	0553431
	531	50°	0.031 / 0.79	225	white	0553531
	631	60°	0.031 / 0.79	270	white	0553631
	731	70°	0.031 / 0.79	300	white	0553731
	831	80°	0.031 / 0.79	330	white	0553831
	233	20°	0.033 / 0.83	120	white	0553233
	333	30°	0.033 / 0.83	150	white	0553333
	433	40°	0.033 / 0.83	190	white	0553433
	533	50°	0.033 / 0.83	225	white	0553533
	633	60°	0.033 / 0.83	270	white	0553633
	235	20°	0.035 / 0.90	120	white	0553235
	335	30°	0.035 / 0.90	150	white	0553335
	435	40°	0.035 / 0.90	190	white	0553435
	535	50°	0.035 / 0.90	225	white	0553535
	635	60°	0.035 / 0.90	270	white	0553635
	735	70°	0.035 / 0.90	300	white	0553735
	439	40°	0.039 / 0.99	190	white	0553439
	539	50°	0.039 / 0.99	225	white	0553539
	639	60°	0.039 / 0.99	270	white	0553639
Heavy duty applications	243	20°	0.043 / 1.10	120	green	0553243
	443	40°	0.043 / 1.10	190	green	0553443
	543	50°	0.043 / 1.10	225	green	0553543
	643	60°	0.043 / 1.10	270	green	0553643
	445	40°	0.045 / 1.14	190	green	0553445
	545	50°	0.045 / 1.14	225	green	0553545
	645	60°	0.045 / 1.14	270	green	0553645
	451	40°	0.051 / 1.30	190	green	0553451
	551	50°	0.051 / 1.30	225	green	0553551
	651	60°	0.051 / 1.30	270	green	0553651
	252	20°	0.052 / 1.32	120	green	0553252
	455	40°	0.055 / 1.40	190	green	0553455
	555	50°	0.055 / 1.40	225	green	0553555
	655	60°	0.055 / 1.40	270	green	0553655
	261	20°	0.061 / 1.55	120	green	0553261
	461	40°	0.061 / 1.55	190	green	0553461
	561	50°	0.061 / 1.55	225	green	0553561
	661	60°	0.061 / 1.55	270	green	0553661
	263	20°	0.063 / 1.60	120	green	0553263
	463	40°	0.063 / 1.60	190	green	0553463
	565	50°	0.065 / 1.65	225	green	0553565
	665	60°	0.065 / 1.65	270	green	0553665
	267	20°	0.067 / 1.70	120	green	0553267
	467	40°	0.067 / 1.70	190	green	0553467

1)Spray width at about 30 cm to the object and 100 bar (10 MPa) pressure with synthetic-resin paint 20 DIN seconds.

12.5 Pump-Runner

(Order No. 2306987)

Universal accessories for cleaning, clean transportation and preservation of the pump unit.

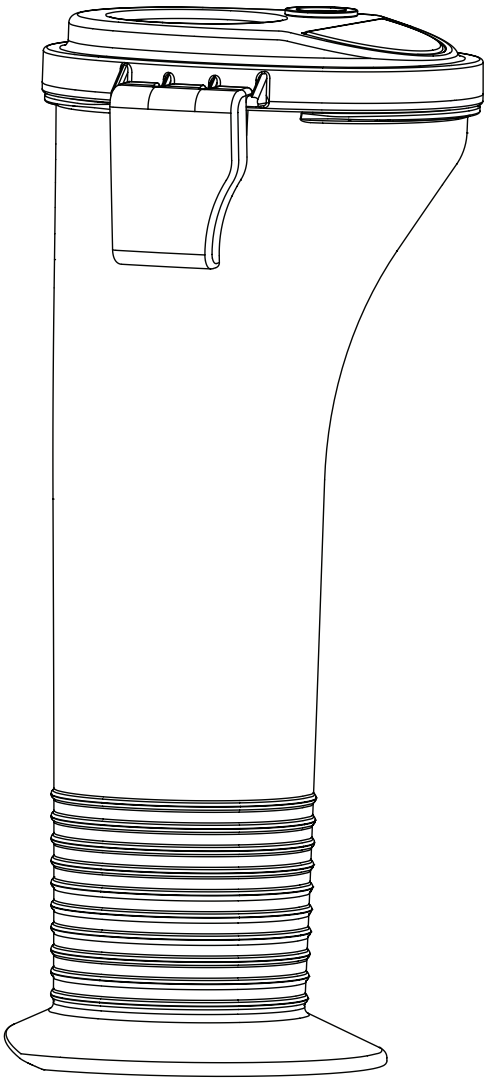
Features:

- Simpler cleaning – the cleaning liquid circulates constantly through the pump making thorough cleaning of the interior
- No cleaning necessary during work stoppage or change of location because the paint in the pump cannot dry out or leak
- Better protection
- Simple assembly

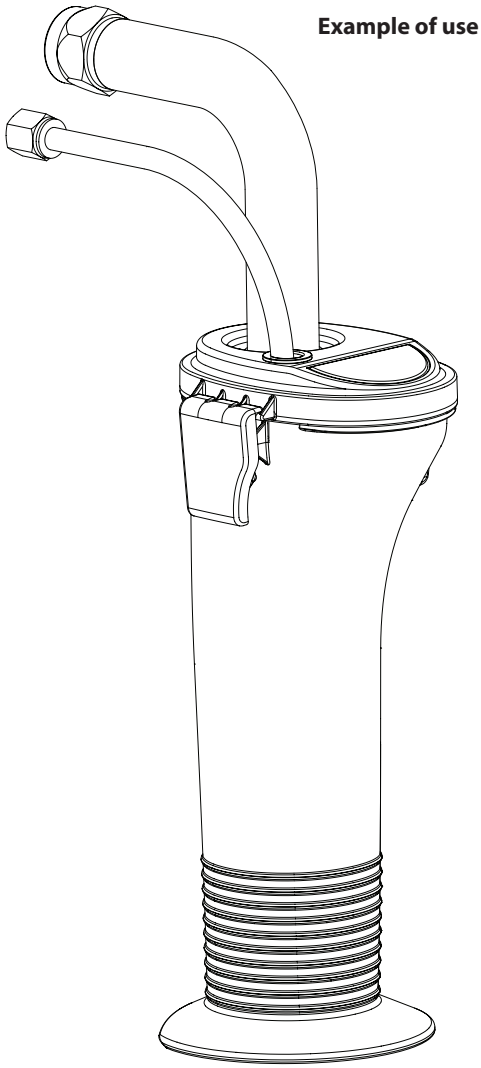
Suitable for the following models:

Diaphragm Pumps		**Double-stroke piston pumps**	
SF 21	Finish 270/370	PS 24	PS 3.25
SF 23	Nespray Deco	PS 26	PS 3.29
SF 27	Nespray 31	PS 30	PS 3.31
SF 31		PS 34	PS 3.34
SF 7000			

Order this at the same time: EasyClean, cleaning and preservation agent (118ml) Order no. 0508 620.



Example of use



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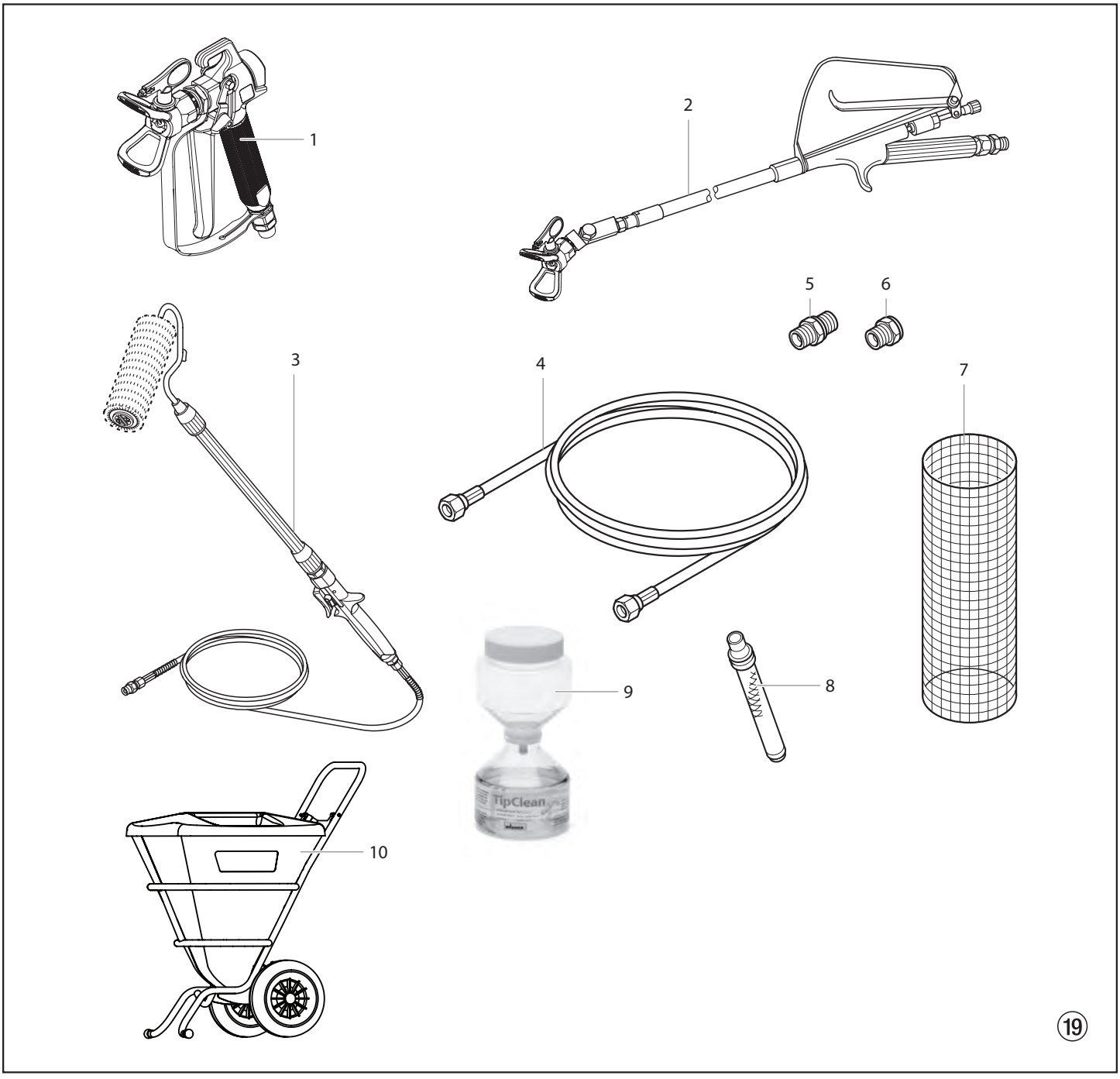
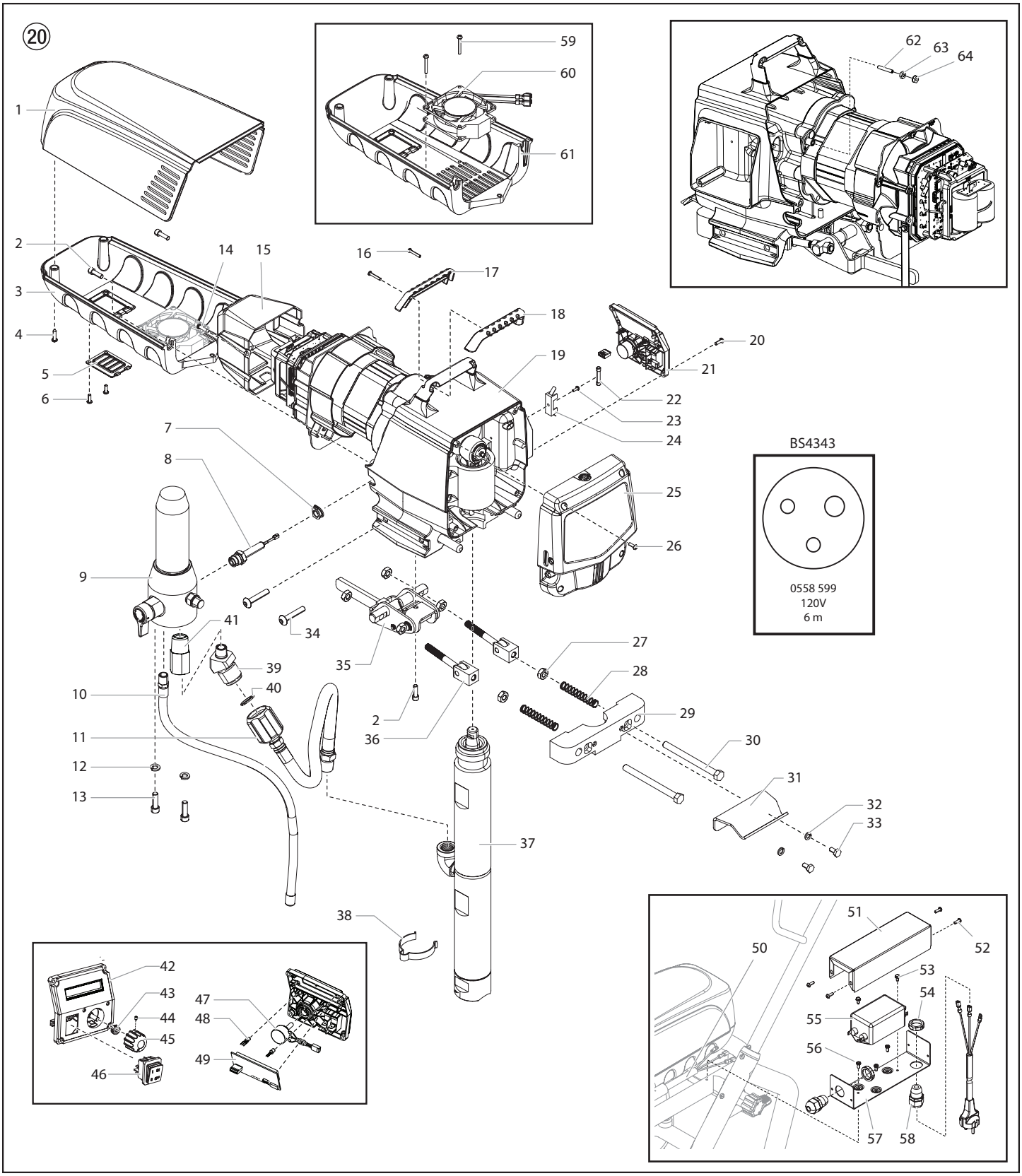
Accessories illustration

ProSpray 3.39



Item	Part No.	Description
1	0296 388	Spray gun AG 08, F-thread
	0296 386	Spray gun AG 08, G-thread
	0502 166	Spray gun AG 14, F-thread
	0502 119	Spray gun AG 14, G-thread
2	0296 441	Pole gun 120 cm, G-thread 7/8″
	0296 443	Pole gun 120 cm, F-thread 11/16″
	0296 442	Pole gun 200 cm, G-thread 7/8″
	0296 444	Pole gun 200 cm, F-thread 11/16″
3	0345 010	In-line roller IR-100
4	9984 573	High-pressure hose DN 4 mm, 7.5 m with stainless steel nipple, 1/4″
	9984 574	High-pressure hose DN 6 mm, 15 m for dispersion, 1/4″
	9984 575	High-pressure hose DN 6 mm, 30 m for dispersion, 1/4″
	9984 506	High-pressure hose DN 10 mm, 15 m with stainless steel nipple, 3/8″
	9984 568	High-pressure hose DN 13 mm, 15 m with stainless steel nipple, 1/2″
	9984 567	High-pressure hose DN 10 mm, 2.5 m with stainless steel nipple, 3/8″
5	0034 038	Double socket for coupling high-pressure hoses (1/4″ x 1/4″)
	3203 026	Double socket for coupling high-pressure hoses (3/8″ x 1/2″)
6	0367 561	Socket for coupling 3/8″ whip hose to spray gun (1/4″ x 3/8″)
7	0034 950	Metex-Reuse Reuse for pre-filtering of coating material in vessel. Place suction pipe in the reuse.
	0034 952	Sieve package (5 pcs) for paint
	0034 951	Sieve package (5 pcs) for dispersion
8	0034 383	Gun filter, red, 1 piece; 180 mesh extra fine
	0097 022	Gun filter, red, 10 pieces; 180 mesh extra fine
	0043 235	Gun filter, yellow, 1 piece; 100 mesh fine
	0097 023	Gun filter, yellow, 10 pieces; 100 mesh fine
	0034 377	Gun filter, white, 1 piece; 50 mesh medium
	0097 024	Gun filter, white, 10 pieces; 50 mesh medium
	0089 323	Gun filter, green, 1 piece; 30 mesh coarse
	0097 025	Gun filter, green, 10 pieces; 30 mesh coarse
9	0097 108	TipClean Cleaning Set for easy cleaning and conservation of nozzles
	0508 619	EasyGlide, special oil (118ml)
	0508 620	EasyClean, cleaning and conservation agent (118 ml)
10	2309 956*	Large volume container
	2312 157*	Connection kit for large volume container *Order at the same time

ProSpray 3.39
Main Assembly



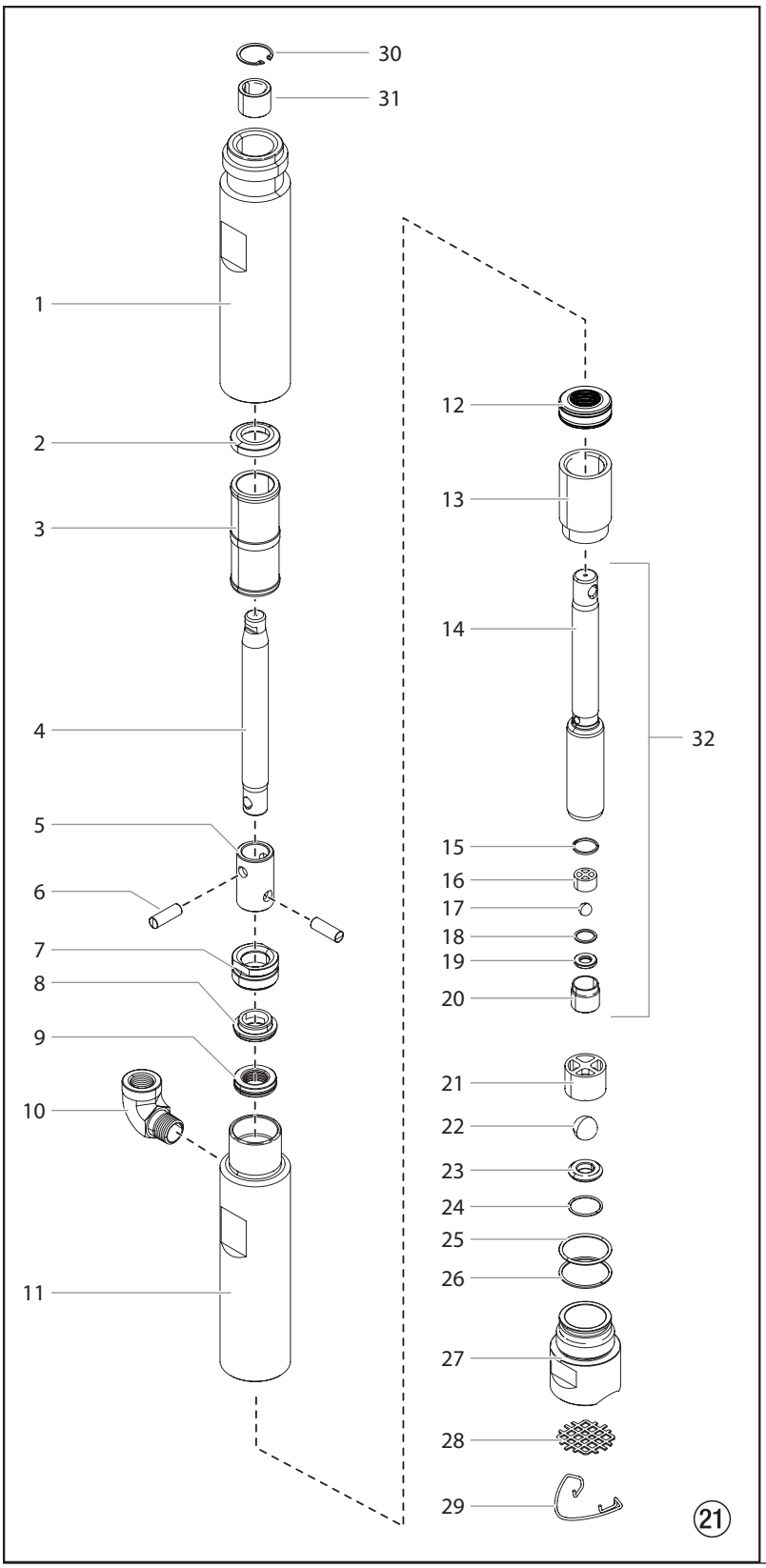
Item	Part No.	Description
1	0290 271	Motor shroud
2	0508 559	Screw (2)
3	0558 500	Belly pan assembly
4	9802 266	Screw (2)
5	0290 228	Door
6	0509 218	Screw (2)
7	0290 253	Grommit
8	0551 778	Transducer assembly
9	0558 710	Filter assembly
10	0507 785	Return tube
11	0290 248	Hose
12	0507 786	Washer (2)
13	9805 311	Screw (2)
14	9802 266	Screw (2)
15	0290 225	Electronic cover
16	9805 317	Screw (2)
17	0290 212	Handle cover, back
18	0290 213	Handle cover, front
19	-------	Drive assembly
20	0509 218	Screw (4)
21	0558 321A	Control panel assembly, complete (includes items 42-49)
22	0522 404	Fuse, 20A
23	9804 916	Screw
24	0522 210	Mounting plate
25	0290 280	Face plate / oiler assembly
26	0509 218	Screw (4)
27	9812 310	Hex nut (2)
28	9894 274	Spring (2)
29	0290 259	Retainer
30	9805 362	Bolt (2)
31	805-434	Pail hook
32	9821 503	Washer (2)

Item	Part No.	Description
33	858-625	Screw (2)
34	9805 348	Screw (4)
35	0290 246	Lever assembly
36	0290 247	Clevis assembly
37	0558 358A	Fluid section assembly
38	9850 639	Clip
39	0290 267	Fitting
40	9871 189	O-ring
41	9885 615	Fitting
42	0290 252	Control panel cover with label
43	0507 749	Nut with seal
44	0290 202	Set screw
45	0290 218	Knob
46	9850 936	Switch
47	0508 579	Potentiometer
48	0522 007	LED assembly
49	0290 220	Digital Electronic Spray Control (DESC) display
50	0558 493	Power cord jumper*
51	0558 454	Bracket cover*
52	0509 218	Screw (4)*
53	9800 340	Screw (2)*
54	0551 980	Lock nut (2)*
55	0522 424	EMI filter, 20A*
56	9805 240	Screw (3)*
57	0558 453	Bracket*
58	0551 714	Cord grip (2)*
59	9805 400	Screw (2)
60	0552 403	Fan
61	0290 475	Belly pan
62	9805 403	Set screw
63	9810 103	Nut
64	0524 353	Nut
	0522 058	Surge protector (not shown, see schematic)
	0522 054	Arrestor (not shown, see schematic)
	0522022	Display wire assembly (not shown, see schematic)

* UK only

ProSpray 3.39

Fluid section



Item	Part No.	Description
1	0558 419	Cylinder
2	0524 905	Stopping spacer
3	0524 906	Extension bushing
4	0558 570A	Piston extension
5	0558 422	Extension slider
6	9832 126	Connecting pin (2)
7	0290 266	Retainer
8	0290 286	Spacer
9	------	Upper packing
10	9885 613	Fitting
11	0558 423	Upper housing
12	------	Lower packing
13	0509 511	Adapter
14	0558 424A	Piston rod
15	0507 734	Upper seal
16	0507 452	Upper ball guide
17	9841 502	Outlet valve ball
18	0507 454	Washer
18	0294 516	Outlet valve seat
20	0507 733	Outlet valve retainer
21	0558 676	Lower ball guide
22	0555 595	Inlet valve ball
23	00310	Inlet valve seat
24	9871 218	O-ring
25	0507 730	O-ring
26	0507 731	O-ring
27	0524 911	Inlet valve housing
28	0555 217	Inlet screen
29	0524 421	Spring clip
30	9822 556	Snap ring
31	9860 727	Bushing
32	0558 365A	Piston assembly (includes items 14-20)
	0558 587	Repacking kit - 1 (includes items 8-9, 12, 15, 17-18, 22 and 24-26)
	0558 730	Repacking kit - 2 (includes items 8-9 and 12)
	0509 927	Lower packing insertion tool

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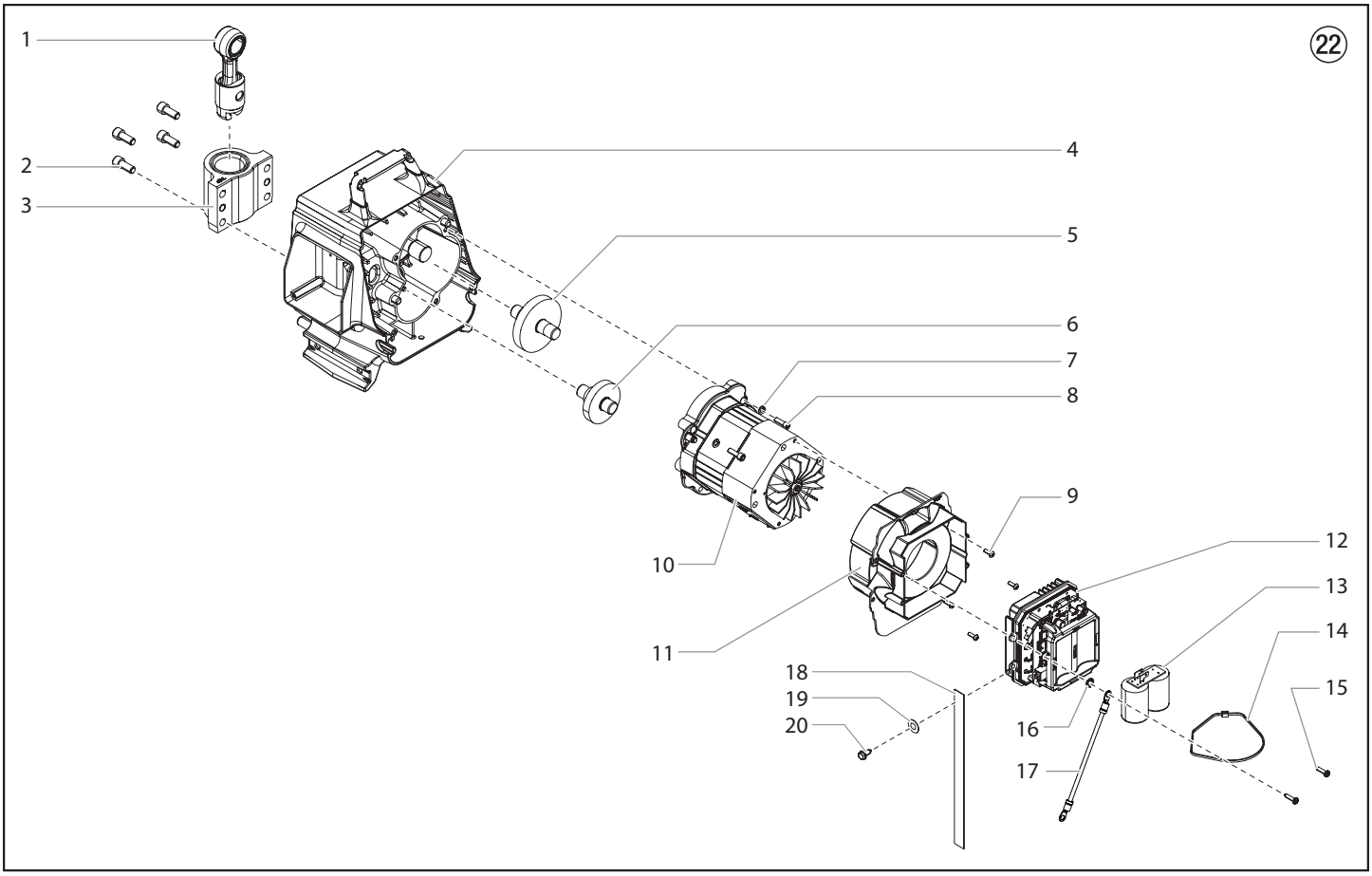
Drive Assembly



Item	Part No.	Description
1	0558 572A	Slider assembly
2	0507 767	Screw (4)
3	0290 272	Slider housing
4	0558 342A	Housing assembly
5	0558 362	3rd stage gear
6	0558 363	2nd stage gear
7	9821 503	Washer (3)
8	700-287	Screw (3)
9	0509 218	Screw (4)
10	0558 743A	Motor assembly

Item	Part No.	Description
11	0558 759	Baffle
12	0558 544	Electronic control assembly
13	0522 027	Capacitor assembly
14	0551 543	Tie wrap
15	9802 266	Screw (2)
16	9822 106	Washer
17	0522 040	Wire assembly
18	0558 559	Grounding strap*
19	9822 631	Washer*
20	9800 340	Ground screw (2)*

* UK only

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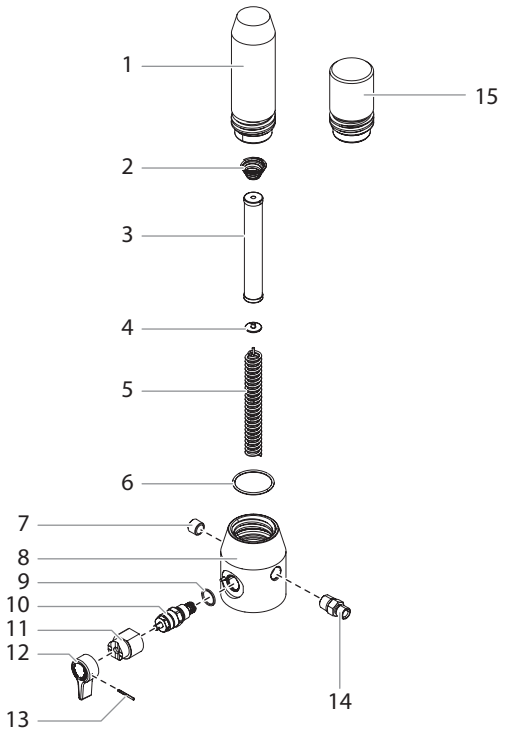
Filter assembly



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Item	Part No.	Description
1	0524 918	Filter housing
2	14058	Conical spring
3	0508 748	Filter, 60 mesh (standard)
	0508 451	Filter, 30 mesh
	0508 452	Filter, 100 mesh
4	0508 603	Bearing ring
5	0508 749	Bearing spring
6	0551 951	O-ring
7	0509 420	Pipe plug
8	0290 264	Housing

Item	Part No.	Description
9	0507 745	Gasket
10	0558 727	Bypass valve assembly (includes item 9)
11	0507 931	Cam base
12	0508 744	Relief valve knob
13	5006 543	Groove pin
14	0349 610	Fitting
15	0558 668	Filter plug
	0507 254	Relief valve kit (includes items 9-13).

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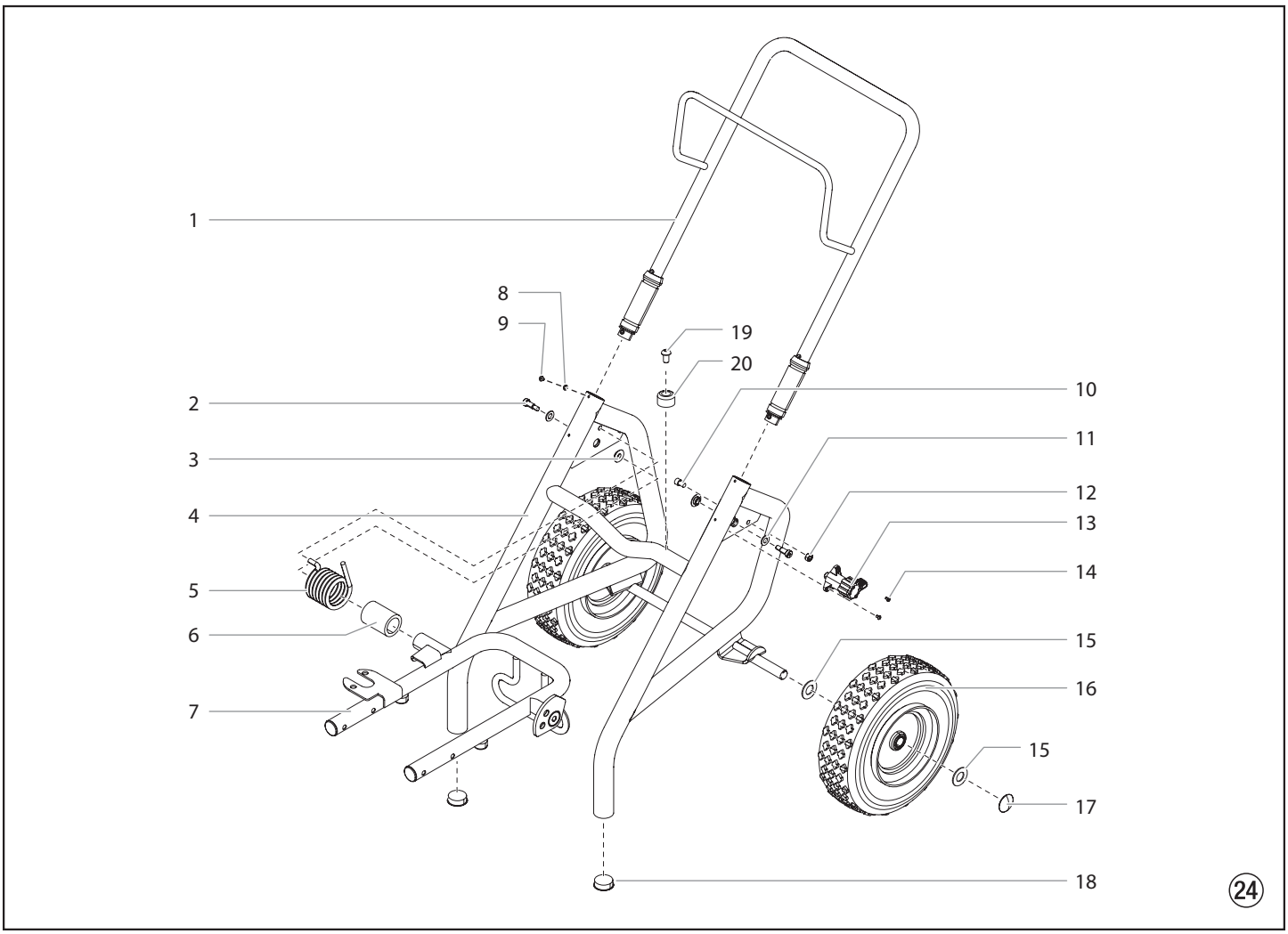
Upright cart assembly



Item	Part No.	Description
1	805-206A	Handle assembly (includes items 8-9)
2	9805 352	Screw (2)
3	0290 257	Bushing
4	805-200	Cart weldment
5	9894 275	Spring
6	0290 294	Sleeve
7	0290 285	Carriage assembly
8	0509 386	Washer (4)
9	0295 608	Screw (4)
10	0279 481	Screw

Item	Part No.	Description
11	9820 305	Washer (2)
12	0555 319	Jam nut
13	0290 236	Cam assembly
14	9805 353	Screw (2)
15	0294 534	Spacer (4)
16	0509 624	Wheel (2)
17	800-019	Axle cap (2)
18	9885 571	Plug (2)
19	54458	Screw (2)
20	13538	Pad (2)

Important notes on product liability

As a result of an EC regulation being effective as from January 1, 1990, the manufacturer shall only be liable for his product if all parts come from him or are released by him, and if the devices are properly mounted and operated.

If the user applies outside accessories and spare parts, the manufacturer´s liability can fully or partially be inapplicable; in extreme cases usage of the entire device can be prohibited by the competent authorities (employer´s liability insurance association and factory inspectorate division).

Only the usage of original WAGNER accessories and spare parts guarantees that all safety regulations are observed.

3+2 years guarantee for professional finishing

Wagner professional guarantee

(Status 01.02.2009)

1. Scope of guarantee

All Wagner professional colour application devices (hereafter referred to as products) are carefully inspected, tested and are subject to strict checks under Wagner quality assurance. Wagner exclusively issues extended guarantees to commercial or professional users (hereafter referred to as "customer") who have purchased the product in an authorised specialist shop, and which relate to the products listed for that customer on the Internet under www.wagner-group.com/profi-guarantee.

The buyer's claim for liability for defects from the purchase agreement with the seller as well as statutory rights are not impaired by this guarantee.

We provide a guarantee in that we decide whether to replace or repair the product or individual parts, or take the device back and reimburse the purchase price. The costs for materials and working hours are our responsibility. Replaced products or parts become our property.

2. Guarantee period and registration

The guarantee period amounts to 36 months. For industrial use or equal wear, such as shift operations in particular, or in the event of rentals it amounts to 12 months.

Systems driven by petrol or air are also guaranteed for a 12 month period.

The guarantee period begins with the day of delivery by the authorised specialist shop. The date on the original purchase document is authoritative.

For all products bought in authorised specialist shops from 01.02.2009 the guarantee period is extended to 24 months providing the buyer of these devices registers in accordance with the following conditions within 4 weeks of the day of delivery by the authorised specialist shop.

Registration can be completed on the Internet under www.wagner-group.com/profi-guarantee. The guarantee certificate is valid as confirmation, as is the original purchase document that carries the date of the purchase. Registration is only possible if the buyer is in agreement with having the data being stored that is entered during registration.

When services are carried out under guarantee the guarantee period for the product is neither extended nor renewed.

Once the guarantee period has expired, claims made against the guarantee or from the guarantee can no longer be enforced.

3. Handling

If defects can be seen in the materials, processing or performance of the device during the guarantee period, guarantee claims must be made immediately, or at the latest within a period of 2 weeks.

The authorised specialist shop that delivered the device is entitled to accept guarantee claims. Guarantee claims may also be made to the service centres named in our operating instructions. The product has to be sent without charge or presented together with the original purchase document that includes details of the purchase date and the name of the product. In order to claim for an extension to the guarantee, the guarantee certificate must be included.

The costs as well as the risk of loss or damage to the product in transit or by the centre that accepts the guarantee claims or who delivers the repaired product, are the responsibility of the customer.

4. Exclusion of guarantee

Guarantee claims cannot be considered

- for parts that are subject to wear and tear due to use or other natural wear and tear, as well as defects in the product that are a result of natural wear and tear, or wear and tear due to use. This includes in particular cables, valves, packaging, jets, cylinders, pistons, means-carrying housing components, filters, pipes, seals, rotors, stators, etc. Damage due to wear and tear that is caused in particular by sanded coating materials, such as dispersions, plaster, putty, adhesives, glazes, quartz foundation.
- in the event of errors in devices that are due to non-compliance with the operating instructions, unsuitable or unprofessional use, incorrect assembly and/or commissioning by the buyer or by a third party, or utilisation other than is intended, abnormal ambient conditions, unsuitable coating materials, unsuitable operating conditions, operation with the incorrect mains voltage supply/frequency, over-operation or defective servicing or care and/or cleaning.
- for errors in the device that have been caused by using accessory parts, additional components or spare parts that are not original Wagner parts.
- for products to which modifications or additions have been carried out.
- for products where the serial number has been removed or is illegible
- for products to which attempts at repairs have been carried out by unauthorised persons.
- for products with slight deviations from the target properties, which are negligible with regard to the value and usability of the device.
- for products that have been partially or fully taken apart.

5. Additional regulations.

The above guarantees apply exclusively to products that have been bought by authorised specialist shops in the EU, CIS, Australia and are used within the reference country.

If the check shows that the case is not a guarantee case, repairs are carried out at the expense of the buyer.

The above regulations manage the legal relationship to us concludingly. Additional claims, in particular for damages and losses of any type, which occur as a result of the product or its use, are excluded from the product liability act except with regard to the area of application.

Claims for liability for defects to the specialist trader remain unaffected.

German law applies to this guarantee. The contractual language is German. In the event that the meaning of the German and a foreign text of this guarantee deviate from one another, the meaning of the German text has priority.

J. Wagner GmbH
Division Professional Finishing
Otto Lilienthal Strasse 18
88677 Markdorf
Federal Republic of Germany

Note on disposal:

In observance of the European Directive 2002/96/EC on waste electrical and electronic equipment and implementation in accordance with national law, this product is not to be disposed of together with household waste material but must be recycled in an environmentally friendly way!

Wagner or one of our dealers will take back your used Wagner waste electrical or electronic equipment and will dispose of it for you in an environmentally friendly way. Please ask your local Wagner service centre or dealer for details or contact us direct.